Appendix A

NOP and Public Scoping Comments

NOTICE OF PREPARATION
City of Oceanside, California

To: Office of Planning and Research
Responsible and Trustee Agencies
Other Interested Parties

Subject: Notice of Preparation of an Environmental Impact Report (EIR)

Project: Pacifica Residential Development Project

Lead Agency: City of Oceanside

Date: November 1, 2022

Pursuant to Section 15082(a) of the California Environmental Quality Act (1970), the City of Oceanside will be the lead agency and will require preparation of an environmental impact report for the project described below. Consistent with your agency's statutory authority, the City requests input regarding the scope and content of the EIR. The City has concluded that the project could result in potentially significant environmental impacts and therefore an EIR is required. The project description and location are included herein.

Pursuant to Section 15103 of the CEQA Guidelines, response must be sent at the earliest date and received by our agency no later than thirty (30) days after receipt of this notice. Should you have any questions regarding the project or notice of preparation, please call Shannon Vitale, Senior Planner, at (760) 435-3927. Please mail or e-mail your written response by November 30, 2022, to:

Development Services Department
Attn: Shannon Vitale, Senior Planner
300 N. Coast Hwy.
Oceanside, California 92057
Fax: (760) 435-3927
E-Mail: SVitale@oceansideca.org

City/County Location: City of Oceanside, County of San Diego

Applicant: MLC Holdings, Inc.

Project Location: The project site is the former Pacifica Elementary School located on an approximately 14.55-acre site at 4991 Macario Drive in the City of Oceanside, California. The project site is bound to the north by single-family homes fronting Claire Drive; to the east by Roja Drive; to the south by single-family homes fronting N. Redondo Drive; and to the west by open space. The project site is approximately 0.5 mile from the San Luis Rey Transit Center. The property is currently disturbed with asphalt from the

former elementary school that was demolished in 2004. The General Plan designation for the property is Civic Institution (CI) with the associated zoning category of Civic/Public (PS).

Project Description: The proposed project consists of development of 164 three-story attached townhomes. Of the 14.55-acre site, 10.16 acres would be developed and would have a density of 11.3 dwelling units per acre. The approximately 4 acres that would not be developed consist of 20 to 30-foot-tall slopes along the southeastern and western portions of the project site. Townhomes would range in size from approximately 1,200 square feet to 1,800 square feet with two and three bedrooms and an attached two-car garage. Each townhome would include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 54,150 square feet, would be designed with amenities such as tot lots, an off-leash dog park, pickle ball courts, bocce ball areas, barbecue areas, and a space for a variety of outdoor games.

Site access would be provided at the corner of Monica Circle and Macario Drive and emergency only access would be provided via a new private driveway from Malaga Drive.

The proposed project would establish a Planned Development District intended to provide zoning, use regulations, and development standards for future development of the site. A Planned Development Plan has been prepared in accordance with the City of Oceanside Zoning Ordinance – Article 17. The Planned Development Plan provides direction for the assignment of land uses, development intensities, development regulation, as well as, design guidelines that will provide a framework for the specific development of the site.

The project would include a General Plan Amendment to revise the land use designation from Civic Institution (CI) to Medium Density Residential-B (MDB-R). A Zone Amendment is also proposed to revise the current zoning from Civic/Public (PS) to Planned Development (PD), with the Pacifica Planned Development Plan service as the regulating document.

Potential Environmental Effects: Pursuant to CEQA Section 15060(d) of the CEQA Guidelines, the project may potentially result in significant impacts related to: Aesthetics, Air Quality, Biological Resources, Cultural Resources, Energy, Geology/Soils, Greenhouse Gas Emissions, Hazards and Hazardous Materials, Hydrology/Water Quality, Land Use, Noise, Population and Housing, Transportation, Tribal Cultural Resources, and Utilities/Service Systems. An EIR will be prepared to evaluate the proposed project's potential impacts on the environment, outline mitigation measures, and analyze potential project alternatives.

PUBLIC SCOPING MEETING

The City of Oceanside will hold a public scoping meeting to provide an overview of the project entitlement application and obtain information regarding the content and scope of the Draft Environmental Impact Report (DEIR). This meeting will take place on **Monday, November 14, 2022, at 6:00 p.m. at the Mission Branch Library Community Room,**

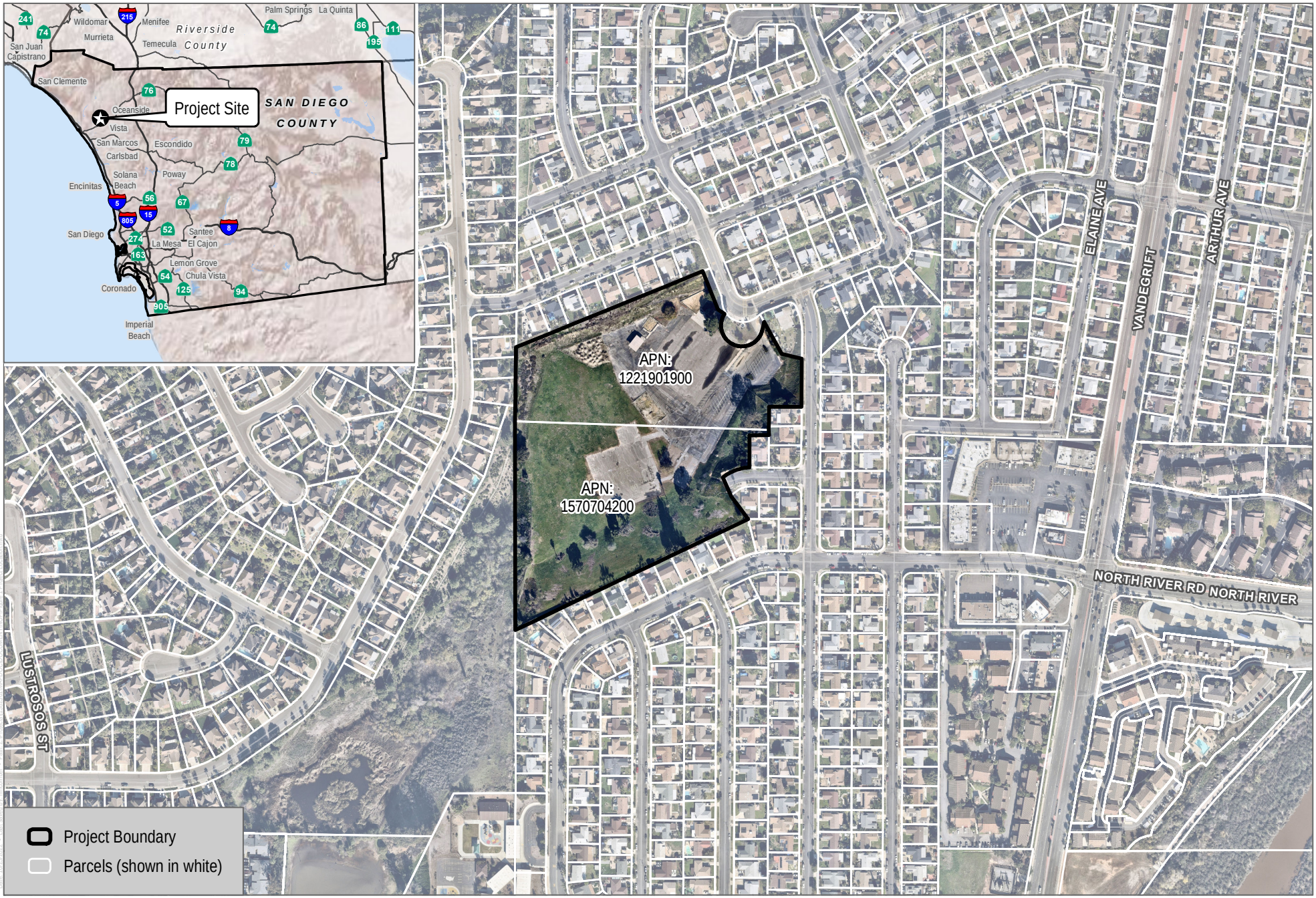
located at 3861 Mission Avenue, in the City of Oceanside. The meeting format will consist of a brief project presentation, followed by a public comment period, and open forum with city staff and applicant representatives. All public agencies, organizations and interested parties are encouraged to attend and participate in this meeting.

Entitlement application materials for this project have been submitted to the City and are currently being reviewed by staff and are available for public review either at the City or on the City's eTRAKIT website (https://crw.cityofoceanside.com/etrakit3/) under project number GPA22-00001.

Signature: _____
Shannon Vitale, Senior Planner

Date: November 1, 2022

Attachments: Figure 1, Location Map
Figure 2, Site Plan



SOURCE: SanGIS 2019

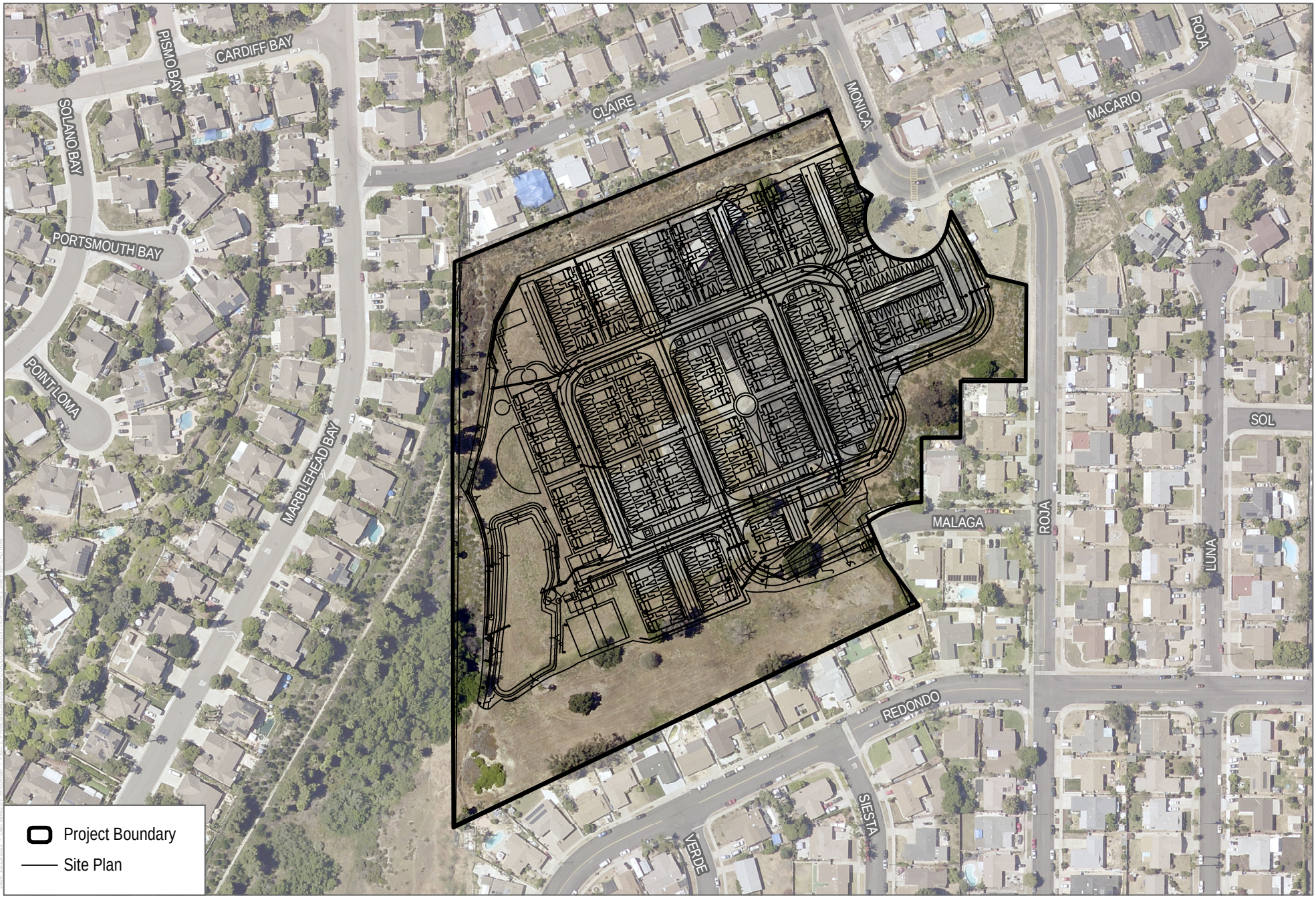
DUDEK

0 200 400 Feet

FIGURE 1

Project Location

Pacifica Elementary Housing Development Project



SOURCE: SANGIS 2020

DUDEK

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FIGURE 2

Site Plan

Pacifica Elementary Housing Development Project

California Department of Transportation

DISTRICT 11
4050 TAYLOR STREET, MS-240
SAN DIEGO, CA 92110
(619) 709-5152 | FAX (619) 688-4299 TTY 711
www.dot.ca.gov

November 30, 2022

11-SD-76
PM 6.00
Pacifica Residential Development Project
NOP/SCH#2022110021

Ms. Shannon Vitale
Senior Planner
City of Oceanside
300 N. Coast Highway
Oceanside, CA 92057

Dear Ms. Vitale:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Notice of Preparation for the Draft Environmental Impact Report (NOP) for the Pacifica Residential Development Project located near State Route 76 (SR-76). The mission of Caltrans is to provide a safe and reliable transportation network that serves all people and respects the environment. The Local Development Review (LDR) Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities.

Safety is one of Caltrans' strategic goals. Caltrans strives to make the year 2050 the first year without a single death or serious injury on California's roads. We are striving for more equitable outcomes for the transportation network's diverse users. To achieve these ambitious goals, we will pursue meaningful collaboration with our partners. We encourage the implementation of new technologies, innovations, and best practices that will enhance the safety on the transportation network. These pursuits are both ambitious and urgent, and their accomplishment involves a focused departure from the status quo as we continue to institutionalize safety in all our work.

Caltrans is committed to prioritizing projects that are equitable and provide meaningful benefits to historically underserved communities, to ultimately improve transportation accessibility and quality of life for people in the communities we serve.

We look forward to working with the City of Oceanside in areas where the City and Caltrans have joint jurisdiction to improve the transportation network and connections

between various modes of travel, with the goal of improving the experience of those who use the transportation system.

Caltrans has the following comments:

Traffic Impact Study

- A Vehicle Miles of Travel (VMT) based Traffic Impact Study (TIS) should be provided for this project. Please use the Governor's Office of Planning and Research Guidance to identify VMT related impacts.[1]

- The TIS may also need to identify the proposed project's near-term and long-term safety or operational issues, on or adjacent to any existing or proposed State facilities.

Complete Streets and Mobility Network

Caltrans views all transportation improvements as opportunities to improve safety, access and mobility for all travelers in California and recognizes bicycle, pedestrian and transit modes as integral elements of the transportation network. Caltrans supports improved transit accommodation through the provision of Park and Ride facilities, improved bicycle and pedestrian access and safety improvements, signal prioritization for transit, bus on shoulders, ramp improvements, or other enhancements that promotes a complete and integrated transportation network. Early coordination with Caltrans, in locations that may affect both Caltrans and the City of Oceanside is encouraged.

To reduce greenhouse gas emissions and achieve California's Climate Change target, Caltrans is implementing Complete Streets and Climate Change policies into State Highway Operations and Protection Program (SHOPP) projects to meet multi-modal mobility needs. Caltrans looks forward to working with the City to evaluate potential Complete Streets projects.

Maintaining bicycle, pedestrian, and public transit access during construction is important. Mitigation to maintain bicycle, pedestrian, and public transit access during construction is in accordance with Caltrans' goals and policies.

[1] California Governor's Office of Planning and Research (OPR) 2018. "Technical Advisory on Evaluating Transportation Impacts in CEQA." https://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

Land Use and Smart Growth

Caltrans recognizes there is a strong link between transportation and land use. Development can have a significant impact on traffic and congestion on State transportation facilities. In particular, the pattern of land use can affect both local vehicle miles traveled and the number of trips. Caltrans supports collaboration with local agencies to work towards a safe, functional, interconnected, multi-modal transportation network integrated through applicable "smart growth" type land use planning and policies.

The City should continue to coordinate with Caltrans to implement necessary improvements at intersections and interchanges where the agencies have joint jurisdiction.

Environmental

Caltrans welcomes the opportunity to be a Responsible Agency under the California Environmental Quality Act (CEQA), as we have some discretionary authority of a portion of the project that is in Caltrans' R/W through the form of an encroachment permit process. We look forward to the coordination of our efforts to ensure that Caltrans can adopt the alternative and/or mitigation measure for our R/W. We would appreciate meeting with you to discuss the elements of the EIR that Caltrans will use for our subsequent environmental compliance.

An encroachment permit will be required for any work within the Caltrans' R/W prior to construction. As part of the encroachment permit process, the applicant must provide approved final environmental documents for this project, corresponding technical studies, and necessary regulatory and resource agency permits. Specifically, CEQA determination or exemption. The supporting documents must address all environmental impacts within the Caltrans' R/W and address any impacts from avoidance and/or mitigation measures.

We recommend that this project specifically identifies and assesses potential impacts caused by the project or impacts from mitigation efforts that occur within Caltrans' R/W that includes impacts to the natural environment, infrastructure including but not limited to highways, roadways, structures, intelligent transportation systems elements, on-ramps and off-ramps, and appurtenant features including but not limited to lighting, signage, drainage, guardrail, slopes and landscaping. Caltrans is interested in any additional mitigation measures identified for the project's draft Environmental Document.

Broadband

Caltrans recognizes that teleworking and remote learning lessen the impacts of traffic on our roadways and surrounding communities. This reduces the amount of VMT and decreases the amount of greenhouse gas (GHG) emissions and other pollutants. The availability of affordable and reliable, high-speed broadband is a key component in supporting travel demand management and reaching the state's transportation and climate action goals.

Right-of-Way

- Per Business and Profession Code 8771, perpetuation of survey monuments by a licensed land surveyor is required, if they are being destroyed by any construction.
- Any work performed within Caltrans' R/W will require discretionary review and approval by Caltrans and an encroachment permit will be required for any work within the Caltrans' R/W prior to construction.

Additional information regarding encroachment permits may be obtained by contacting the Caltrans Permits Office at (619) 688-6158 or emailing D11.Permits@dot.ca.gov or by visiting the website at https://dot.ca.gov/programs/traffic-operations/ep. Early coordination with Caltrans is strongly advised for all encroachment permits.

If you have any questions or concerns, please contact Kimberly Dodson, LDR Coordinator, at (619) 985-1587 or by e-mail sent to Kimberly.Dodson@dot.ca.gov.

Sincerely,

Maurice A. Eaton

MAURICE EATON
Branch Chief
Local Development Review

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
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Kumeyaay

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(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

November 2, 2022

Shannon Vitale
City of Oceanside
300 North Coast Highway
Oceanside, CA 92057

Re: 2022110021, Pacifica Residential Project, San Diego County

Dear Ms. Vitale:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

cc: State Clearinghouse

San Diego County Archaeological Society, Inc.

Environmental Review Committee

3 November 2022

To: Ms. Shannon Vitale, Senior Planner
Development Services Department
City of Oceanside
300 North Coast Highway
Oceanside, California 92057

Subject: Notice of Preparation of a Draft Environmental Impact Report
Pacifica Residential Development Project

Dear Ms. Vitale:

Thank you for the Notice of Preparation for the subject project, which was received by this Society last month.

We are pleased to note the inclusion of historical resources in the list of subject areas to be addressed in the DEIR and look forward to reviewing it during the upcoming public comment period. To that end, please include us in notification of the public review of the DEIR and ensure availability of a copy of the cultural resources technical report(s).

SDCAS appreciates being included in the environmental review process for this project.

Sincerely,

James W. Royle, Jr., Chairperson
Environmental Review Committee

cc: SDCAS President
File

Alexandra Martini

From: Shannon Vitale <SVitale@oceansideca.org>
Sent: Wednesday, November 30, 2022 8:20 AM
To: Alexandra Martini
Cc: Crooker, Johanna; 'Feletto, Louisa'
Subject: FW: Pacifica Residential Development Project

FYI

From: Shelley Payton <srpvv2sd@aol.com>
Sent: Wednesday, November 30, 2022 8:18 AM
To: Shannon Vitale <SVitale@oceansideca.org>
Subject: Pacifica Residential Development Project

Warning: External Source

Good morning,

I would like to express my opinion regarding the Pacifica Residential Development Project. I strongly oppose this project. Shoe-horning a large project into an overcrowded older neighborhood will have a negative impact and create potentially dangerous conditions for the existing neighborhoods that surround it.

Traffic and parking in the area are already at or over capacity. The egress of over 300 vehicles onto narrow, overpacked residential streets with a fair amount of foot traffic, is not only dangerous for the potential residents and the existing residents in an emergency, it will add to existing traffic issues.

There are only two directions to leave this area. If these vehicles exit up Monica and left on Claire, the streets very narrow and every inch of curb is full about 99% of the time. If there are any extra cars in the new development they will either have to walk for blocks to park, or take spaces from current residents who will no longer be able to park near their homes. Additionally, they will have to continue their exit down Marblehead Bay which has lots of congestion during school hours with both parking and children crossing the street to get to the school around the corner on Douglas. It is already difficult to safely exit onto Douglas at rush hour and school drop off/pick up times, without the addition of hundreds of vehicles from a new development.

The other option to exit this proposed project is the more likely egress, taking Macaro to Roja, also an older neighborhood with tight streets, and then turning onto Redondo which means additional traffic either flows through another tight street and through a different school zone or turns left and heads to North River Road. This intersection is already experiencing gridlock during rush hour as it must funnel all buses and transit station traffic, spouses from Camp Pendleton who work anywhere to the south and all the local neighborhood traffic already existing. During a fire or other emergency this would be a frightening and dangerous bottleneck area already.

A development in this area should reflect the type of housing surrounding it. This is not the place to put high density housing, there is plenty of that going up on Oceanside Blvd. were the roads can facilitate the additional traffic.

I hope you will consider that this project will negatively impact this area and the city should consider a project that has a better fit, not just a project that earns the hugest profit for some developer. If they want to rework this plan for single family homes it would be a little easier to absorb the impact of additional vehicles in the area but this is the wrong answer to getting this property off the books.

Thanks for your consideration,

Shelley Payton

Appendix B
Planned Development Plan

Pacifica
Planned Development Plan

April 2023

Pacifica
Planned Development Plan

April 2023

PD 22-xxxx

Prepared for:
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1 - Introduction

1.1. Project Overview

The Pacifica Planned Development Plan provides the City of Oceanside a comprehensive planning tool to help guide the orderly development of the new planned residential community at the former Pacifica Elementary School site. Located west of N River Road, the 14.55-acre Planned Development, hereafter also noted as "planning area," is conveniently situated approximately 0.5 mile from the San Luis Rey Transit Center, which provides connections to Camp Pendleton and SPRINTER rail services, as well as local bus transit within northeast Oceanside. The proposed project consists of a for-sale 164-unit Planned Development Community to be developed on a 14.55 acre site located at the former Pacifica Elementary School site at 4991 Macario Drive. The neighborhood will consist of three-story attached townhomes oriented towards internal paseos and drives throughout the site. New homes will range in size from a minimum of approximately 1200 square feet to 1800 square feet with two (2) to four (4) bedrooms and an attached 2-car garage (either side-by-side or tandem configuration). Each home will include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 59,460 square feet of open space, will be designed with urban-style amenities such as tot lots, an off-leash dog space, pickle ball courts, bocce ball areas, barbecue areas, and space for a variety of outdoor games. The new community will blend into the surrounding neighborhood by keeping the existing slopes along the internal property lines as well as remaining open without gates at the main entry drive into the site. Architectural and landscape styles will reflect the traditional neighborhood. Buildings will be designed to engage and enhance an interconnected series of landscaped pathways and sidewalks along internal drives out to the surrounding streets to support convenient, safe, and efficient pedestrian movements that promote walkability and transit use.

1.2. Location and Context

The Pacifica Planned Development Plan planning area encompasses approximately 14.55 gross acres. As illustrated in Figure 1.1. Regional Vicinity Map, the planning area is situated in the northeast portion of the City of Oceanside in the North Valley neighborhood. The planning area is located approximately 0.5 mile from the San Luis Rey Transit Center and 1.5 miles from Highway 76.

As shown in Figure 1.2. Local Vicinity Map and Surrounding Uses, the planning area is situated on the southwest corner of Macario Drive and Monica Circle. Existing single-family neighborhoods are located north, south, east, and west of the site while existing slopes and wetlands habitat

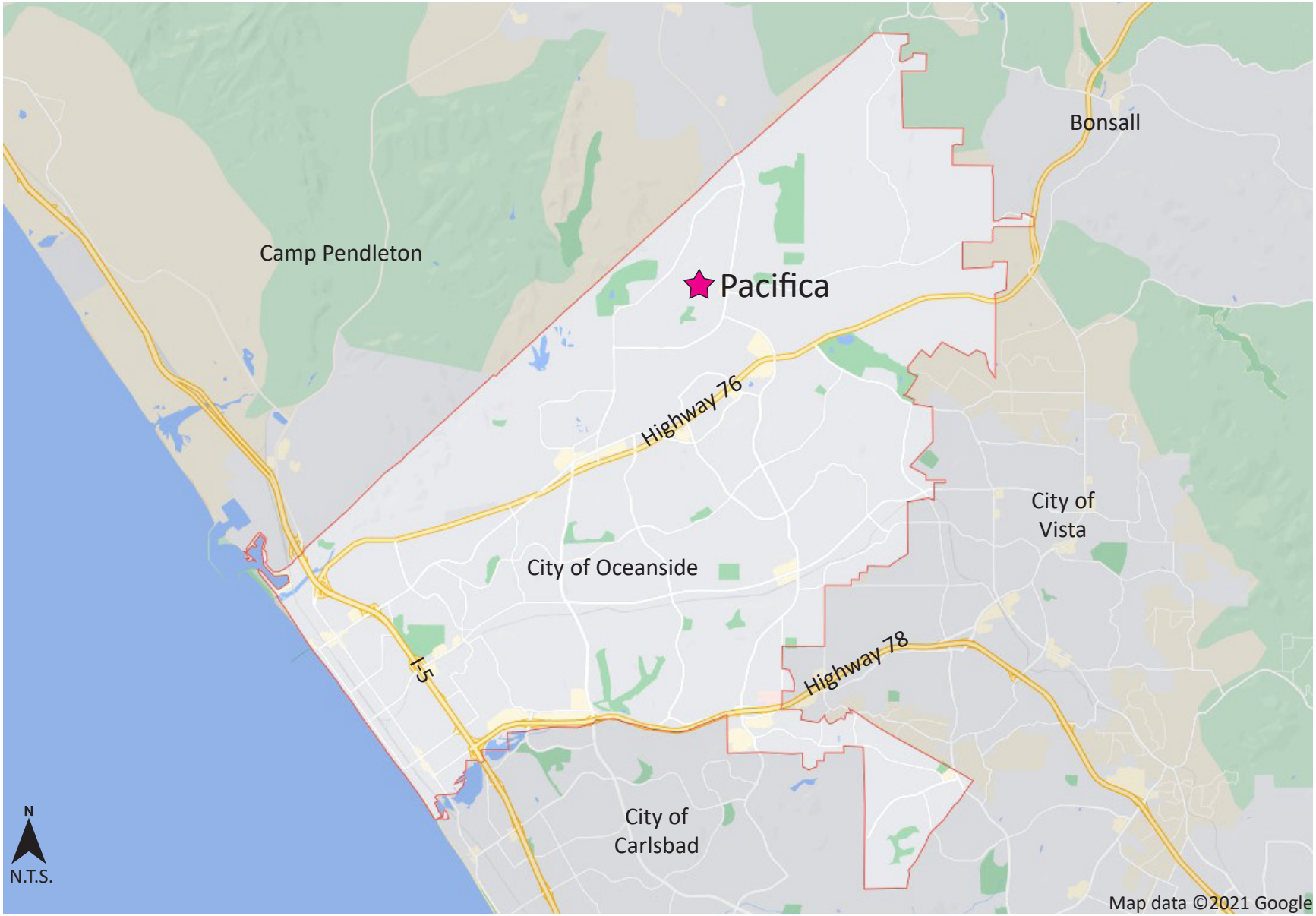


Figure 1.1. Regional Vicinity Map

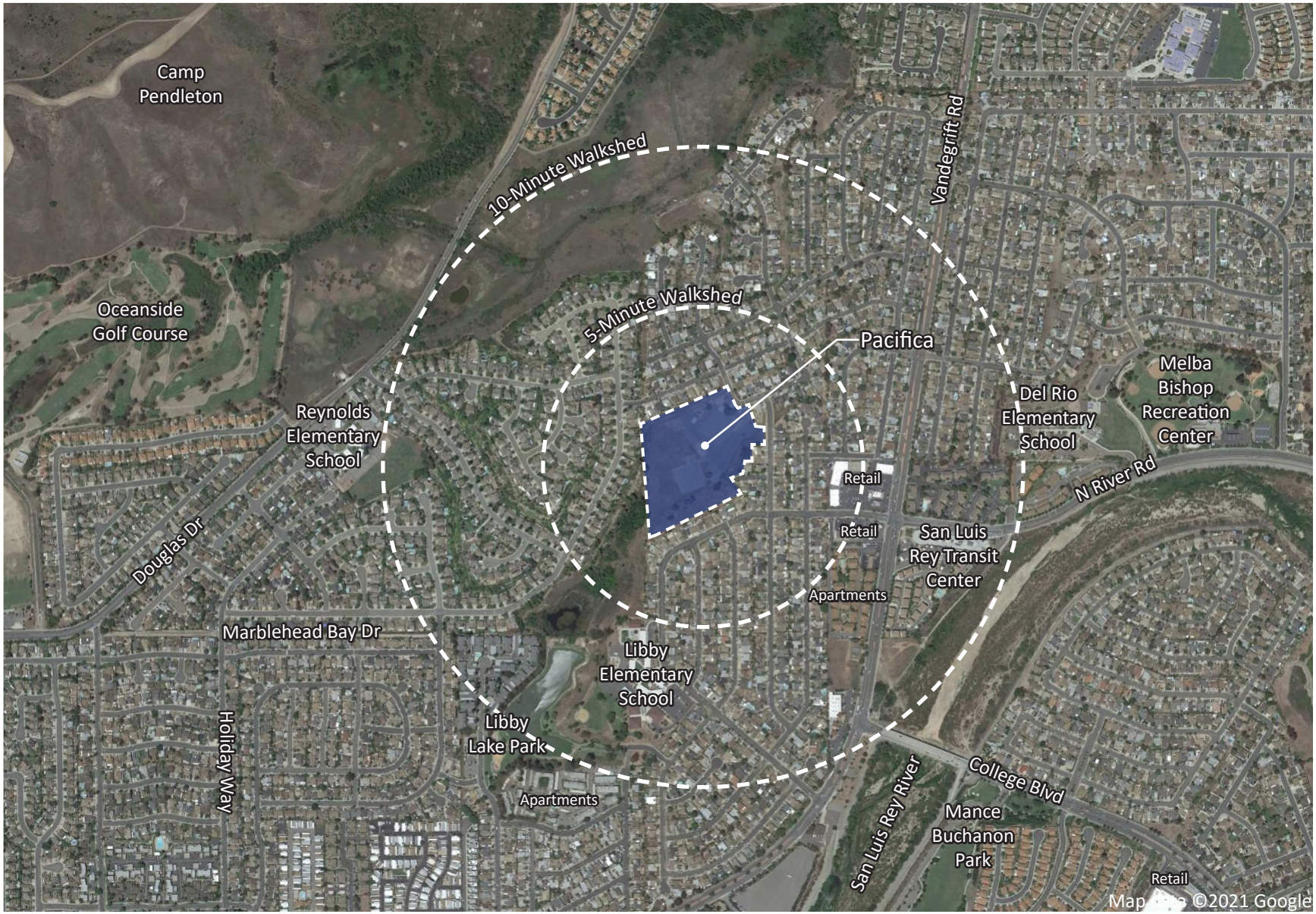


Figure 1.2. Local Vicinity and Surrounding Uses Map

leading to Libby Lake Park lie southwest of the site. To the east along River Road is a small area of neighborhood commercial with a gas station and primarily food uses within walking distance of the site. Less than 1 mile across the San Luis Rey River is Mance Buchanon Park which provides biking and walking trail access west to the beach.

As illustrated in Figure 1.3. Existing Conditions and shown in Figure 1.4. Existing Site Photographs, the planning area includes three (3) parcels (Assessor Parcel Numbers 122-190-19, 122-190-22, and 157-070-42) located at the intersection of Macario Drive and Monica Circle. From the intersection, the site is generally flat with no structures and minimal vegetation of grasses, small shrubs, and a few trees. The edge of the parcels are bounded by approximately 20' - 30' slopes up to existing single family homes on the north, south, east, and west. In the southwest corner of the planning area, existing wetlands habitat runs from the site towards Libby Lake Park. Easements for storm drain and sewer facilities cut through the site from west to east and tie into an existing sewer lift station located within the property along the Macario Drive frontage.

All streets immediately surrounding the site are local residential streets improved with sidewalks to serve the existing neighborhood. The planning area will have two (2) points of access into the site. The primary access with be from a private drive at the corner of Monica Circle and Macario Drive. The southeast corner of the site ties into the existing dead end of Malaga Drive which will be extending into the site as an emergency vehicle access with gates limiting access to the planning area.

1.3. Regulatory Setting and Site History

Prior to the adoption of this Planned Development Plan, the Project area was the former site of the Pacifica Elementary School. Built in 1972, the school closed in 2002 after the buildings were found to be unsafe to withstand an earthquake. Students continued attending classes in portable trailer buildings here until 2007 when the students were absorbed into nearby schools. In 2019, the Oceanside Unified School District identified the property as a surplus site and the Facilities Advisory Committee began the process to determine the disposition of the site.

Given the site's history as an elementary school, the property has a existing designation of Civic Institution in the City's General Plan Land Use Map. Similarly, the existing zoning designation is Civic/Public; see Figure 1.5. Existing Land Use and Zoning Maps. Concurrent with the Planned Development Plan, a General Plan Amendment and Zone Change application were processed to redesignate the Property to Medium Density Residential - B and Planned Development respectively, thereby allowing for the development of the townhome community proposed herein. See Figure 1.6. Proposed Land Use and Zoning Maps.

1.4. Purpose of the Planned Development District

The Planned Development (PD) Plan is intended to establish the zoning, use regulations, and development regulations for future development of the site. The PD Plan has been prepared in accordance with the City of Oceanside Zoning Ordinance - Article 17, which outlines the requirements for a Planned Development District. As stated in Section 1701 of the Zoning Ordinance, the specific purposes of the PD Planned Development District are to:

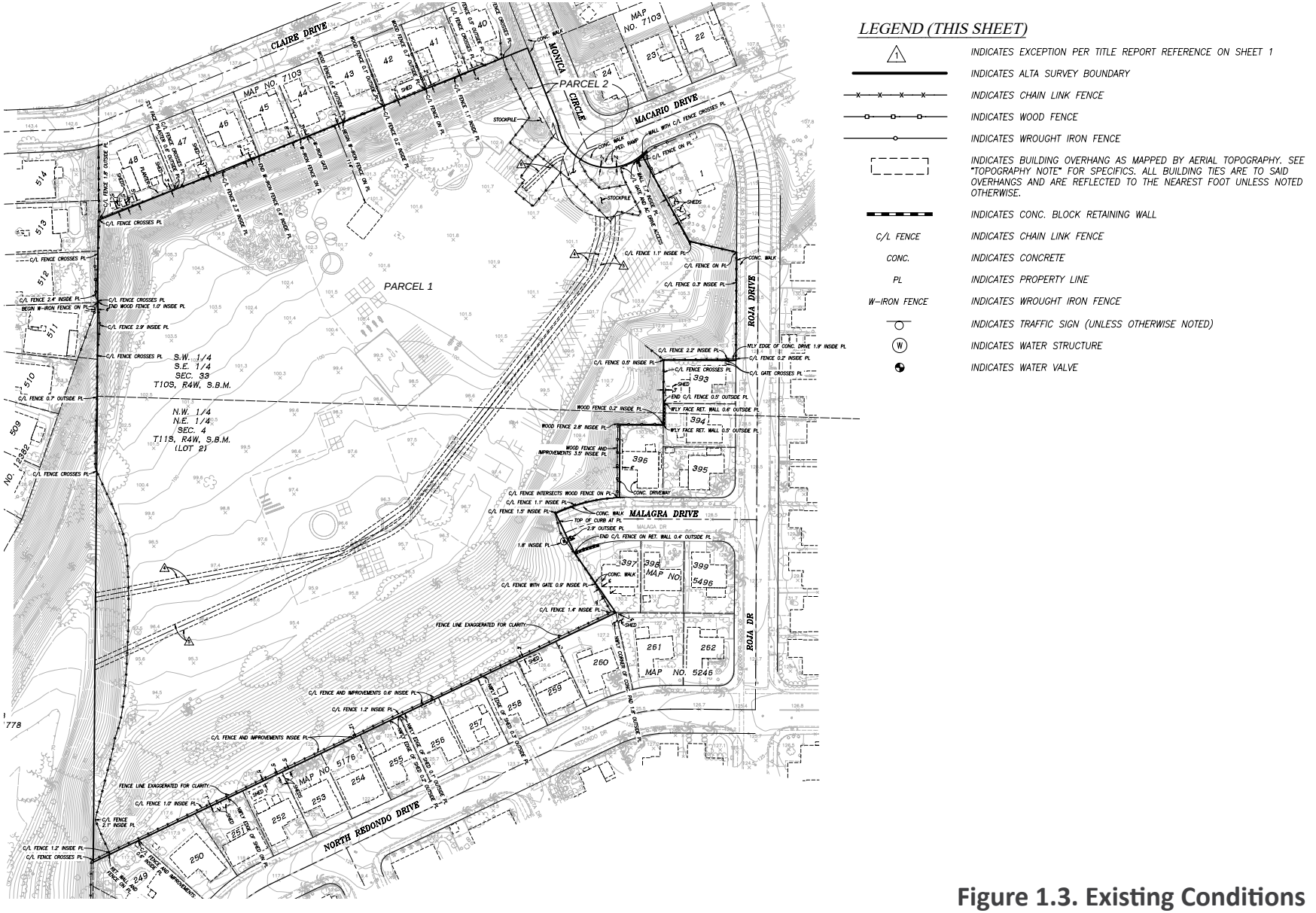


Figure 1.3. Existing Conditions

View west on Malaga Dr.

View south on Monica Cir.

View into the site from Malaga Dr.

View into the site from Macario Dr. and Monica Cir.

Figure 1.4. Existing Site Photographs

1. Establish a procedure for the development of parcels of land in order to reduce or eliminate the rigidity, delays, and inequities that otherwise would result from application of zoning standards and procedures designed primarily for small parcels.

2. Ensure orderly and thorough planning and review procedures that will result in quality urban design.

3. Encourage variety and avoid monotony in large developments by allowing greater freedom in selecting the means to provide access, light, open space, and amenity.

4. Provide a mechanism whereby the City may authorize desirable developments consistent with the General Plan without inviting speculative rezoning applications, which, if granted, often could deprive other owners of development opportunities without resulting in construction of the proposed facilities.

5. Encourage allocation and improvement of common open space in residential areas, and provide for maintenance of the open space at the expense of those who will directly benefit from it.

6. Encourage the preservation of serviceable existing structures of historic value or artistic merit by providing the opportunity to use them imaginatively for purposes other than that for which they were originally intended.

7. Encourage the assembly of properties that might otherwise be developed in unrelated increments to the detriment of surrounding neighborhoods.

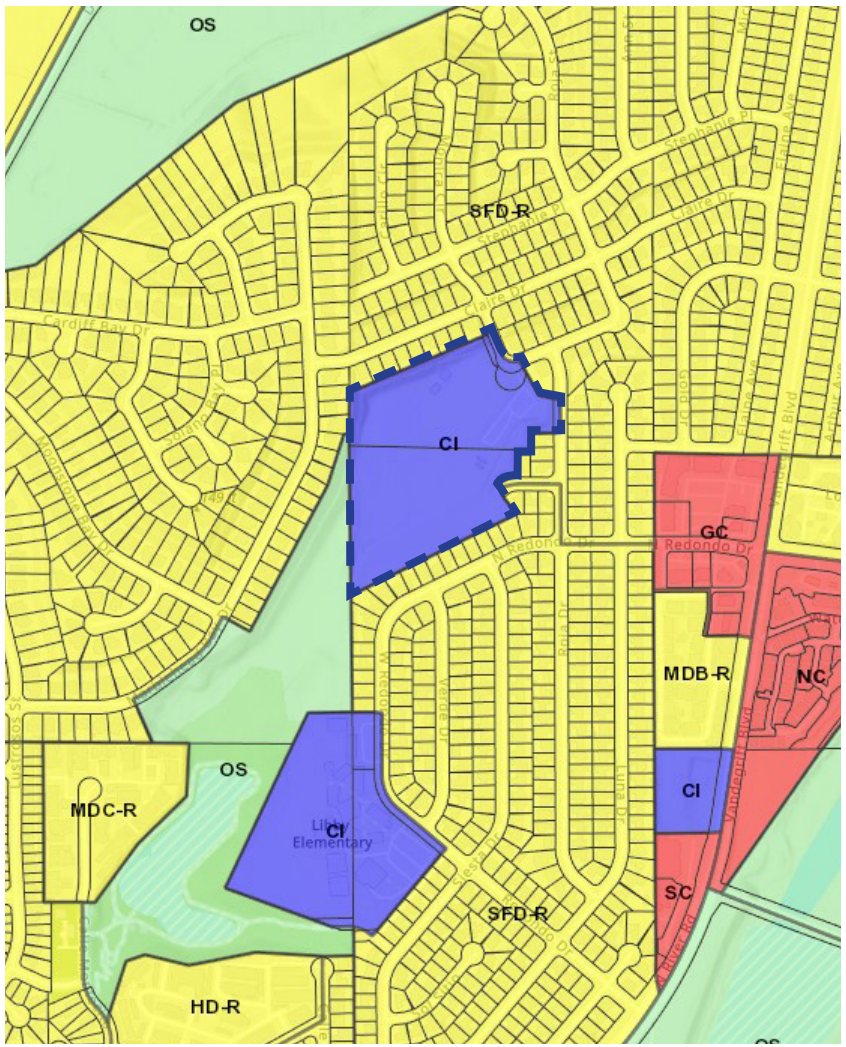
Planned developments are utilized to allow for the creative design and development of parcels that require more flexibility in design than would be possible through the strict application of zoning regulations found in the Zoning Ordinance. This PD Plan serves as the development guide for the property. The document provides direction for the assignment of land uses, development intensities, development regulation, as well as design guidelines that will provide a framework for the specific development of the planning area.

1.5. Discretionary Applications

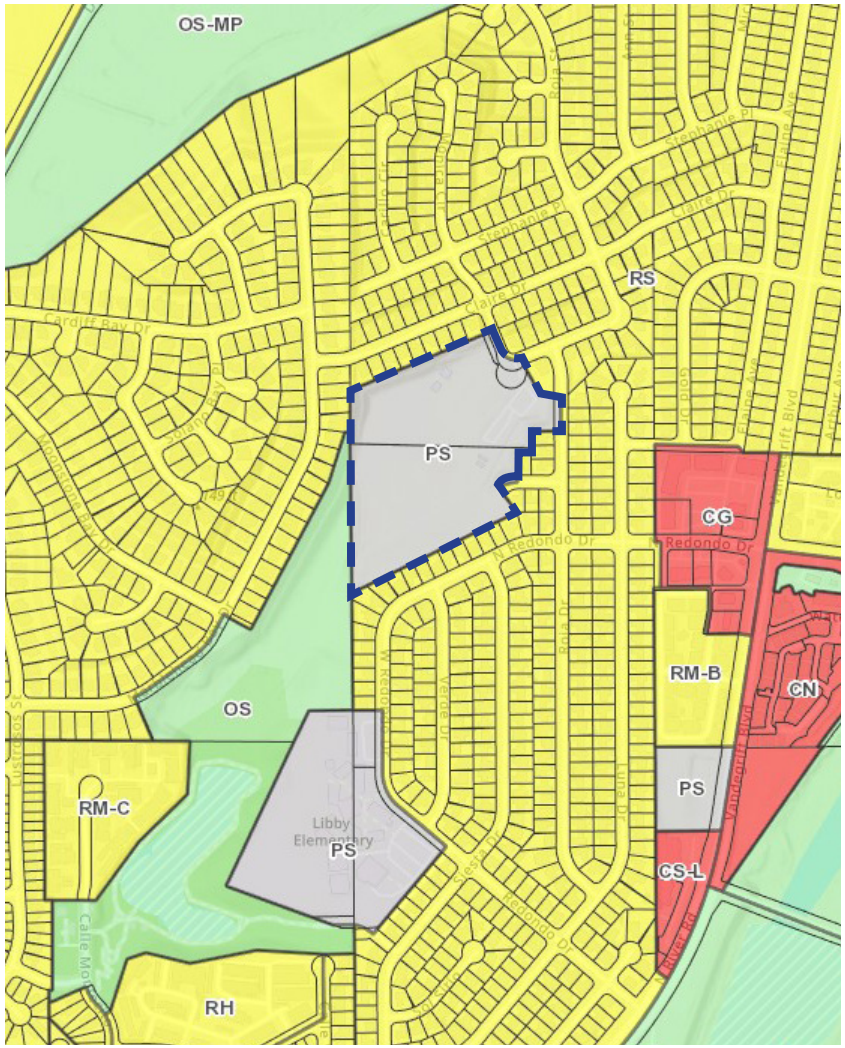
To support development of the Pacifica Planned Development Plan, the project consists of the land use applications summarized below. The proposed development components are described in more detail in Chapter 2 - Site Design and Chapter 3 - Architectural Design. Consistency with the City of Oceanside's policy documents is provided in Chapter 4 - General Plan and Zoning Consistency.

1.5.1. General Plan Amendment

As mentioned previously, the current General Plan land use designation for the planning area is Civic Institution (CI). This designation does not allow for residential uses as it is intended for public and quasi-public uses and facilities. The change in general plan land use to Medium Density Residential - B (MDB-R) will allow for housing to be developed on the site at an appropriate scale for the area and size of parcel.

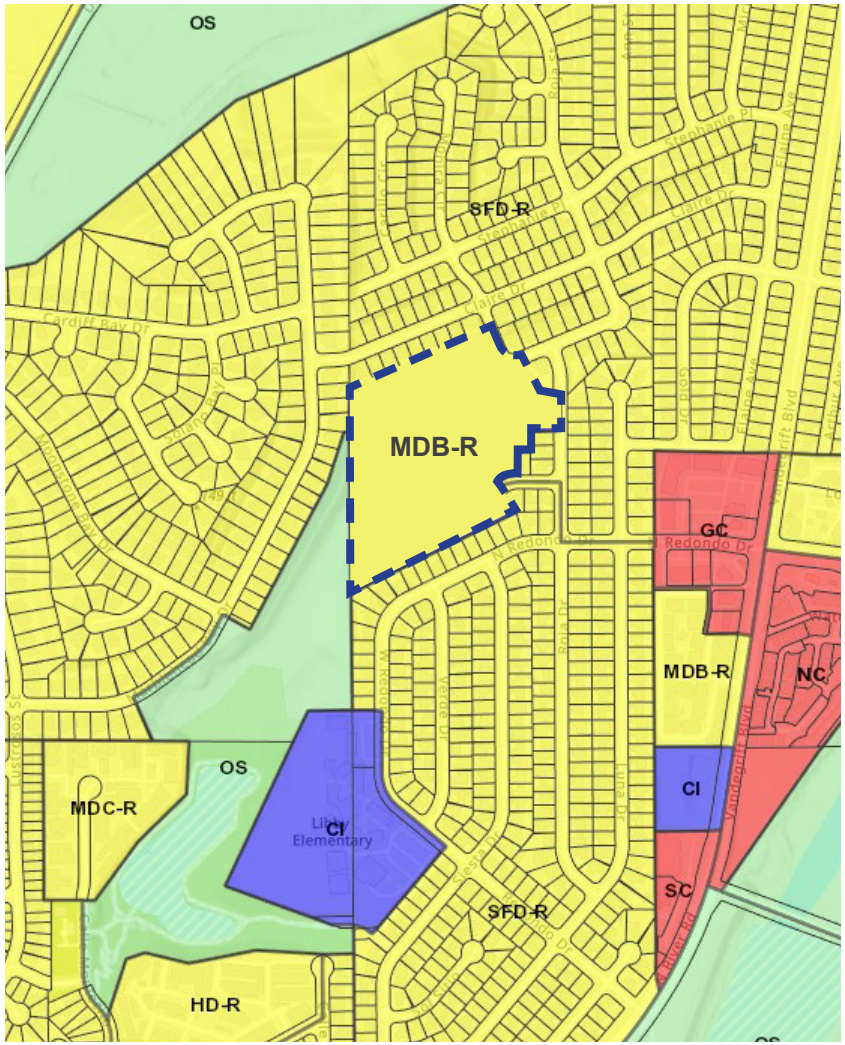


Land Use

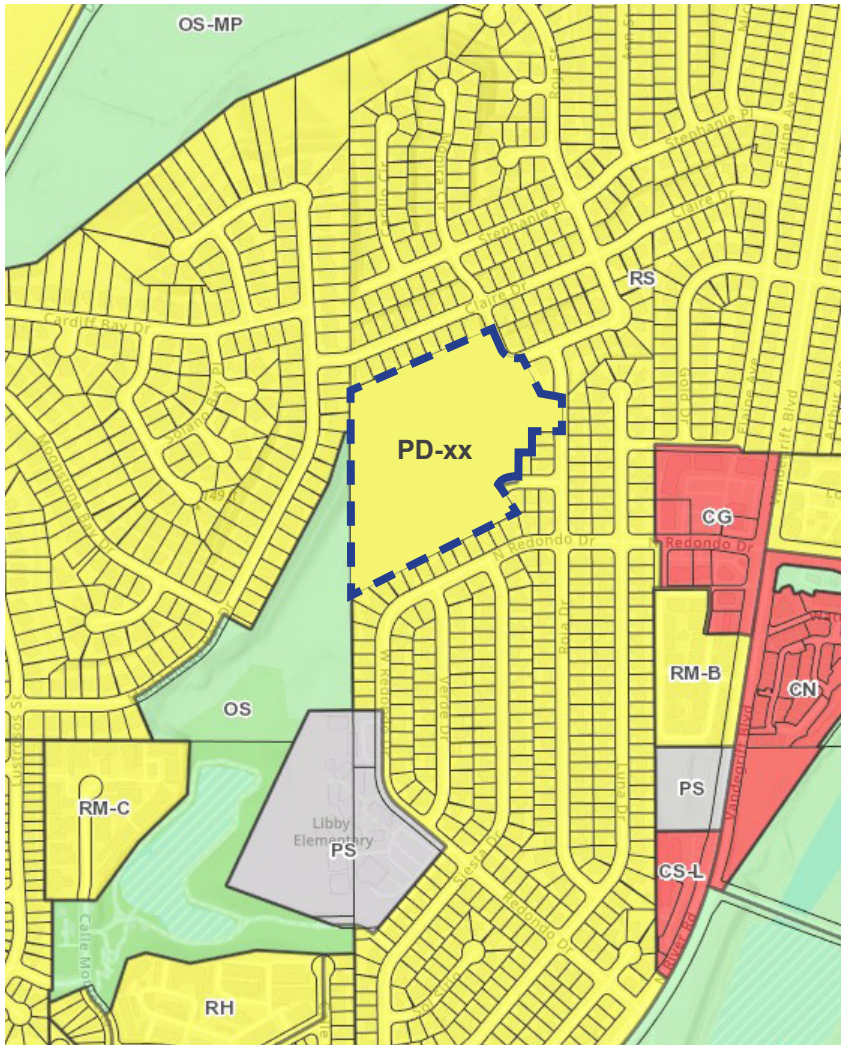


Zoning

Figure 1.5. Existing Land Use and Zoning Maps



Land Use



Zoning

Figure 1.6. Proposed Land Use and Zoning Maps

1.5.2. Zoning Amendment

Currently, the entire property is designation as Civic/Public (PS). A Zone Amendment is proposed that will designate the entire property as Planned Development (PD) with the Pacifica Planned Development Plan serving as the regulating document.

1.5.3. Tentative Map

A Tentative Map (TM) is proposed that will present specific lot configurations for the Pacifica community. It is anticipated that Pacifica will be one lot that is developed in a single phase.

1.5.4. Development Plan

A Development Plan is required for site plan approval pursuant to Article 43 of the City's Zoning Code to ensure that new development complies with all applicable requirements of the Zoning Code. The Development Plan is proposed in conjunction with the PD Plan and presents the proposed site layout and project architecture along with additional information related to aesthetics, building orientation, landscaping and open space, and infrastructure. The Development Plan corresponds to the Tentative Map presenting the proposed building locations and conceptual grading elements of the project.

2 - Site Design

2.1. Goals and Concepts

The Planned Development provides a tool for comprehensive and creative planning strategies that respond to the unique conditions of the site, market conditions, and context while implementing the goals and policies of the City's General Plan Land Use Element, Zoning Ordinance, and Subdivision Ordinance. The following goals have been crafted to guide development that is consistent with these documents:

1. Support the housing needs of the City of Oceanside by developing high-quality, workforce housing that balances density with price-points and long term maintenance costs, such that new homes remain financially attainable to entry-level home buyers.
2. Maximize residential densities, to the extent feasible, within proximity to transit, education facilities, commercial uses, and trails to reduce reliance on automobiles and potentially minimize greenhouse gas (GHG) emissions.
3. Show sensitivity to adjacent properties, open space, and community amenity areas with appropriate setbacks and orientation of buildings and facades.
4. Design the community using compatible architectural styles to the existing neighborhood with a scale and treatment that improve on the visual image of the surrounding area.
5. Create a highly connected and efficient system of sidewalks and pathways layered with a vehicular circulation system that adequately accommodates traffic and minimizes impacts to the existing neighborhood.
6. Provide well designed common open space areas that are connected throughout the Project site while utilizing current water and energy conservation practices.
7. Preserve natural open space that provides wildlife habitat or other natural resources.

Primary Community Entry
- New driveway location for better line of sight and visibility to traffic on Monica Cir. and Macario Dr.
- No gate
- Publicly accessible pocket park
- To be enhanced with decorative paving, landscaping and community signage

Existing Slope
- Provides approximately 30 feet of elevation difference between existing homes and new homes below.

Typical Three-Story Townhome Building
- 4 building types
- 2 elevation styles
- 3 floor plan variation
- Maximum height of 38.0 feet
- Oriented to provide front doors along streetscapes and paseos

Amenity Area A
- 10,126 SF
- Minimum dimension of 20 feet
- See Amenity Plan for details

Amenity Area B
- 21,143 SF
- Dog park and fire pits for community gathering (Please see Amenity Plan)

Central Paseo
- 6,121 SF
- Provides a central spine trail that connects amenity areas to promote walkability
- Enhanced with landscaping and special paving at crosswalks

Basin and Habitat Setback
- Stormwater basin for hydromodification and water quality treatment
- Habitat and planning setbacks to protect adjacent existing wetlands

Amenity Area C
- 10,336 SF
- Pickle Ball Courts, Barbecue area, open lawn for games and unstructured play (Please see Amenity Plan)

Secondary Access
- Emergency Vehicle Access Only
- Gated at the existing terminus of Malaga Drive

Project Summary

Property Size (Gross): 14.55 Acres

Developable Area (Net)[1]: 12.82 Acres

Development Pad Area: 10.23 Acres

No. of Units: 164 Three-Story Townhomes[2]
- (14) Plan 2532: 1210 SF, 2 bed., 2.5 baths, 2-car gar.
- (76) Plan 1633: 1497 SF, 3 bed., 2.5 baths, 2-car gar.
- (74) Plan 1636: 1791 SF, 4 bed., 4 baths, 2-car gar.

Density[3]: 12.8 du/ac

Proposed Setbacks:
- Front (To Monica/Macario Dr): 15' to building / 12' to patio
- Side (N and S Bndy): 74' Minimum
- Rear (W Bndy): 69' Minimum

Parking Required:
- Resident: 2 Spaces per Unit (1 covered)
- Guest Spaces: 1 + 20% of total units (34 spaces)

Parking Provided:
- Resident: Private 2-car garage per unit
- Guest Spaces[10]: 61 spaces

Open Space Required:
- Total: 300 SF per Unit x 164 = 49,200 SF
- Private Open Space minimum dimension of 5 feet
- At least 50% shall be Common = 24,600 SF
- At least two common area shall be 4,000 SF Min (or one at 8,000 SF Min); Minimum dimension of 20 feet

Open Space Provided:
- Total: 83,410 SF (508 SF per unit)
- Private OS (5' min): 23,950 SF
- Common Open Space (20' min; 8000 SF Min): 59,460 SF

Bldg Coverage: 3.23 AC. (22.2%)

Notes:
1. Excludes slopes surrounding the site in accordance with Section 3039 of the City of Oceanside Zoning Ordinance.
2. Type VB construction with NFPA 13D automatic sprinkler system.
3. Density based on Development Area.
4. Inclusionary housing requirement to be met through payment of in-lieu fee.
5. Existing General Plan/Zoning: CI/PS
6. Proposed General Plan: Medium Density B (10-15 du/ac)
7. Proposed Zoning: Planned Development
8. Coastal Zone: No
9. Assessor's Parcel Numbers: 157-070-42-00, 122-190-19-00, and 122-190-22-00
10. Guest Parking Spaces are 16' x 8.5' with 2' overhang; Includes 3 ADA Spaces that are 18' x 9'

North

0 50 100

1" = 50'

Figure 2.1. Conceptual Site Plan

These design goals are achieved in the following ways and are illustrated in Figure 2.1. Conceptual Site Plan:

- High-quality architecture
- Well designed and located open space amenities throughout the project site.
- Vehicular and pedestrian connectivity throughout the site area that ties into the existing neighborhood connecting people to surrounding transit and destinations.
- Preservation of existing slopes to the best extent feasible while providing a large buffer to existing riparian habitat.

2.2 Development Standards

Table 2.1. Development Standards provides a list of development standards that are applicable to all new development within the Pacifica PD area. These standards include building setbacks, height limitations, open spaces requirements, and more.

Table 2.1. Development Standards

Use	Pacifica PD Standards	Additional Standards/Notes
Residential Dwelling Type	Multiple Family Dwellings, Multiple Unit Structures (MUS)	
Density and Intensity		
Min. Site Area/Unit (SF)	3,600 SF/unit	
Max. Site Area/Unit (SF)	2,500 SF/unit	
Min. Density (du/ac)	10.0 du/ac	Excluding slopes
Max. Density (du/ac)	15.0 du/ac	Excluding slopes
Min. Lot Area (SF)	7,500 SF	
Max. Building Height	40 FT or 3 stories	Whichever is less; as measured from the finished adjacent grade to the top of the tallest roof or architectural feature.
Building Setbacks		
Front Yard	15 feet to building, 12 feet to patio	Monica/Macario Dr.
Side Yard	5 FT min., 10 FT avg.	
Rear Yard	15 feet minimum	
Courts	One-half the height of the opposite wall but not less than 18 feet opposite a living room and 12 feet opposite a required window for any other habitable room.	Measured building to building
Private Drive Aisle (Alley)[1]	0 feet minimum	Measured from face of garage door

Use	Pacifica PD Standards	Additional Standards/Notes
Parking		
Garage	2 spaces per unit (including 1 covered); tandem garage parking is permitted	Please refer to Section 2.2.1.
Guest	1 space + 20% total number of units (34 spaces total)	Please refer to Section 2.2.1.
Vehicular Access	24-28 FT private drive	Please refer to Section 2.2.1.
Open Space		
Outdoor Living Area	300 SF/unit (combination of private and common)	Please refer to Section 2.2.2.
Walls and Fencing		Please Refer to Section 2.2.3.
Landscaping		Please Refer to Section 2.2.4.
Other		
Refuse and Recycling		Oceanside Municipal Code
Storage		Oceanside Municipal Code
1. Soffits, vine trellises, upper-story cantilevers, and utility closets may encroach up to 3 feet		

2.2.1. Parking and Private Roadway Standards and Regulations

The purpose of this section is to regulate the provision of off-street parking for all residential uses within the planning area. Parking standards have been developed in accordance with the City's Off-Street Parking Requirements.

A. General Requirements

1. Parking shall only be permitted in designated parking spaces and inside garages. No Parking shall be permitted in Private Drives, Private Drive Aisles, or driveways.

2. All circulation, ingress and egress, and off-street parking areas shall be surfaced with an asphalt or cement concrete paving, designed to withstand repeated vehicular traffic. Other paving material may be used, such as pervious surfaces, subject to the approval of the Director and/or City Engineer.

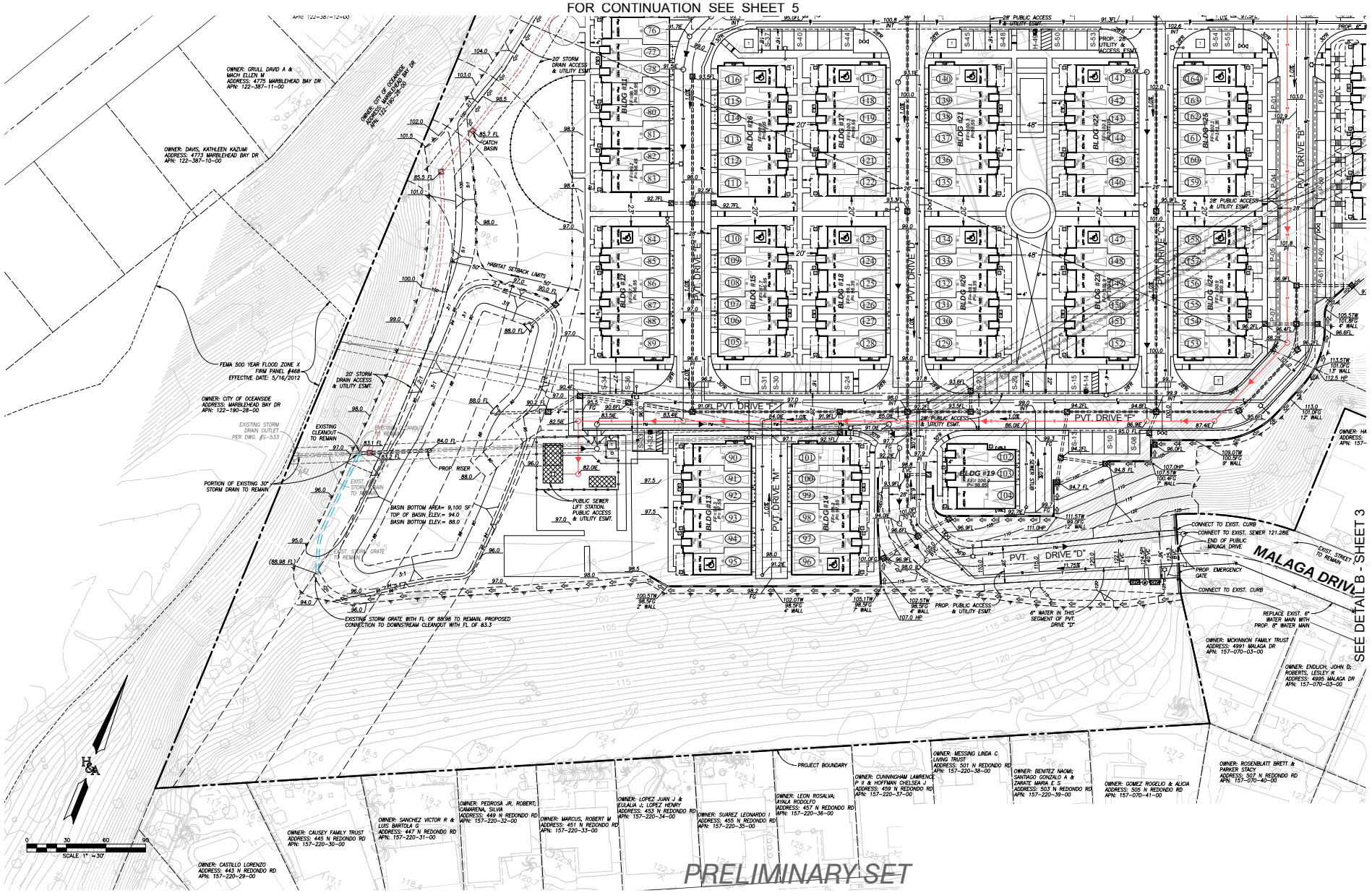
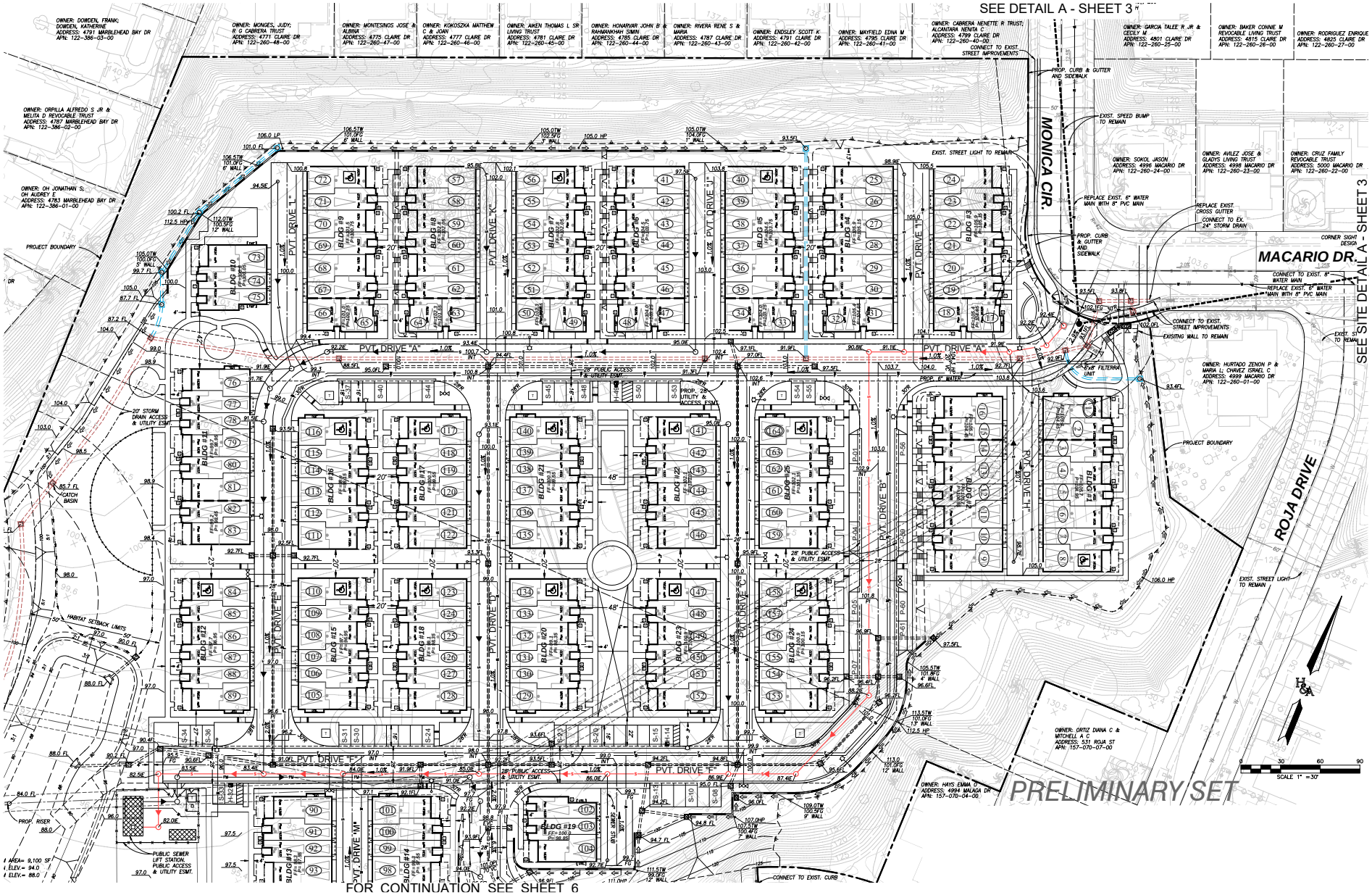


Figure 2.2.1 Tentative Map



HUNSAKER & ASSOCIATES SAN DIEGO, INC.

Figure 2.2.2 Tentative Map

3. All guest parking spaces, Private Drives, Private Drive Aisles, pedestrian crossings, driveways and fire lanes shall be striped or otherwise designated to provide safe access and circulation. Pavement markings, signage, and other distinctions shall be maintained in a visible and legible manner.

B. Garages

The following standards shall apply to all private residential garages within the planning area:

1. Garages shall provide a minimum of two (2) parking spaces. Spaces may be provided in either side-by-side or tandem configurations.
2. Each interior garage parking space shall maintain an unobstructed dimension of 20 feet long and 10 feet wide with a minimal vertical clearance of seven (7) feet, except the front three (3) feet of a parking space located at the front of the garage may have a vertical clearance of four (4) feet.
3. Garages shall be designed to provide adequate storage for three (3) waste carts. Waste carts storage space shall not encroach into the required parking space area.
4. Garage spaces shall be used for parking and not storage, which shall be enforced through the Community's Covenants, Conditions, & Restrictions (CC&Rs)

C. Guest Parking

The following standards shall apply to all guest parking within the planning area:

1. Guest parking shall be provided at a rate of 1 space + 20% of the total number of homes for a total of 34 spaces required on site.
2. Parking Space dimensions shall be provided as follows:
   a. Perpendicular guest parking spaces shall have a minimum dimension of eight and a half (8.5) feet wide by eighteen (18) feet long. The paved parking space length may be decreased by up to two (2) feet by providing an equivalent vehicle overhang into landscape areas or paved walkways. Such overhang area shall not be considered as part of any open space requirement. In no case shall such overhang be considered part of a required walkway or sidewalk width.
   b. Parallel guest spaces shall provide a minimum dimension of eight (8) feet wide by twenty-two (22) feet long.
3. Guest parking spaces shall be evenly distributed throughout the planning area, designed to occur along Private Drives, or divided into small landscaped parking courts to avoid the creation of large parking lots.

4. Guest parking spaces shall be solely used for parking, not for storage; display for sale or lease; or repair of vehicles, trailers, recreation vehicles, boats, or similar. It shall be unlawful for any person to park or store an automotive vehicle or trailer without current registration from the Department of Motor Vehicles or in inoperable condition.

5. Guest parking spaces and associated driveways, maneuvering areas, and landscaping shall be maintained free of vandalism and litter. Striping, paving, walls, lights, and all other facilities shall be maintained in good condition.

6. Designated parking spaces for the disabled shall be provided in compliance with state law (Title 24) and the California Vehicle Code (Section 22507.8), including required number of parking spaces and design requirements.

D. Electric Vehicle Parking and Charging

The following standards implement Section 3048 of the Oceanside Municipal Code and Measure TL-2 of the Climate Action Plan to support and promote the use of electric vehicles:

1. A minimum of one guest space shall be equipped with an EV charging station or as otherwise required by CalGreen, whichever is more stringent. Calculations for the required number of spaces shall be rounded up to the nearest whole number.

2. Garages shall be equipped with one 240-volt/16-ampere electric outlet to accommodate “Level 2” electric vehicle charging.

3. Charging stations/spaces shall be posted with signage indicating the space is only for electric vehicle charging purposes. Days and hours of operations shall be included if time limits or tow away provisions are to be enforced by the owner. Information identifying voltage and amperage levels or safety information must be posted.

4. Charging stations/spaces shall not interfere with on-site parking or pedestrian circulation.

5. Charging stations/spaces shall be maintained in functioning order in all respects.

2.2.2. Open Space

In accordance with the Oceanside Municipal Code, new multi-family residential developments are required to provide both Private and Common Open Space totaling a minimum of 300 SF per home. See Figure 2.3.1. and 2.3.2. Conceptual Landscape Plan:

A. Private Open Space

Private open space is defined as open space areas intended for the private use of individual dwelling units. Private Open Space areas shall be subject to the following requirements:

1. Private open space shall be directly accessible from the interior living space of the unit it is intended to serve.
2. Private open spaces shall be located on the same floor as the primary living area to maximize usability.
3. Private open space shall not be used for storage.
4. Private open space shall have a minimum dimension of five (5) feet.

B. Common Open Space

Common open space areas are commonly owed for the benefit of all planning area residents and their guests. The following standards shall apply to all common open space areas to ensure that adequate landscaping and amenities are provided to support a high quality of life.

1. At least fifty percent (50%) of the total usable open space requirement shall be provided as usable common open space.
2. Parking areas, private roads and driveways, private open space areas, front or street side yards, and areas with slope exceeding ten percent (10%) shall not be considered usable open space.
3. Walkways and bike paths may be used in the calculation of common open space.
4. Common usable open space shall be designed so it has no dimension less than twenty (20) feet, is at least 1,000 SF in size, and is open to the sky.

5. At least two common active recreation areas shall have a minimum size of 4,000 SF or a single, common active recreation area with a minimum size of 8,000 SF may be provided if the area is centrally located and easily accessible from all unit within the project. (1) children's play area shall be provided within a common open space area. Possible amenities for the Project include:

   a. Pickleball Courts

   b. Open lawn area for passive and active recreation activities

   c. Picnic space(s) with gas barbecue/outdoor kitchen

   d. Off-leash pet area/dog park

   e. Passive seating areas with fire pit

   f. Bocce Ball Courts

   g. Children's play area or tot lot

   h. Other appropriate uses as approved by the Director

6. Recreational amenities shall be located and/or designed to minimize noise and visual conflicts from adjacent properties.

7. Amenities shall be distributed throughout the site and should be selected to cater to diverse range of interests and lifestyles including pet owners, young families, singles and more. Spaces should be provided that offer opportunities to play, socialize, exercise, and/or relax. See Figure 2.4. Conceptual Pickleball Courts and Dog Park Areas and Figure 2.5. Conceptual Central Paseo and Courtyard Areas for details.

C. Preservation of Slopes and Open Space

The site is surrounded by 20 - 30' tall slopes on all sides except where the project meets the street grade at the corner of Monica Circle and Macario Drive. This area totals more than 4.0 acres that the Project will work to maintain the slopes as existing to the best extent feasible. Additionally, the project is near existing wetlands to the southwest of the site. A minimum fifty (50) foot biological buffer and a minimum fifty (50) foot planning buffer shall be established at the outer edge of the riparian habitat.

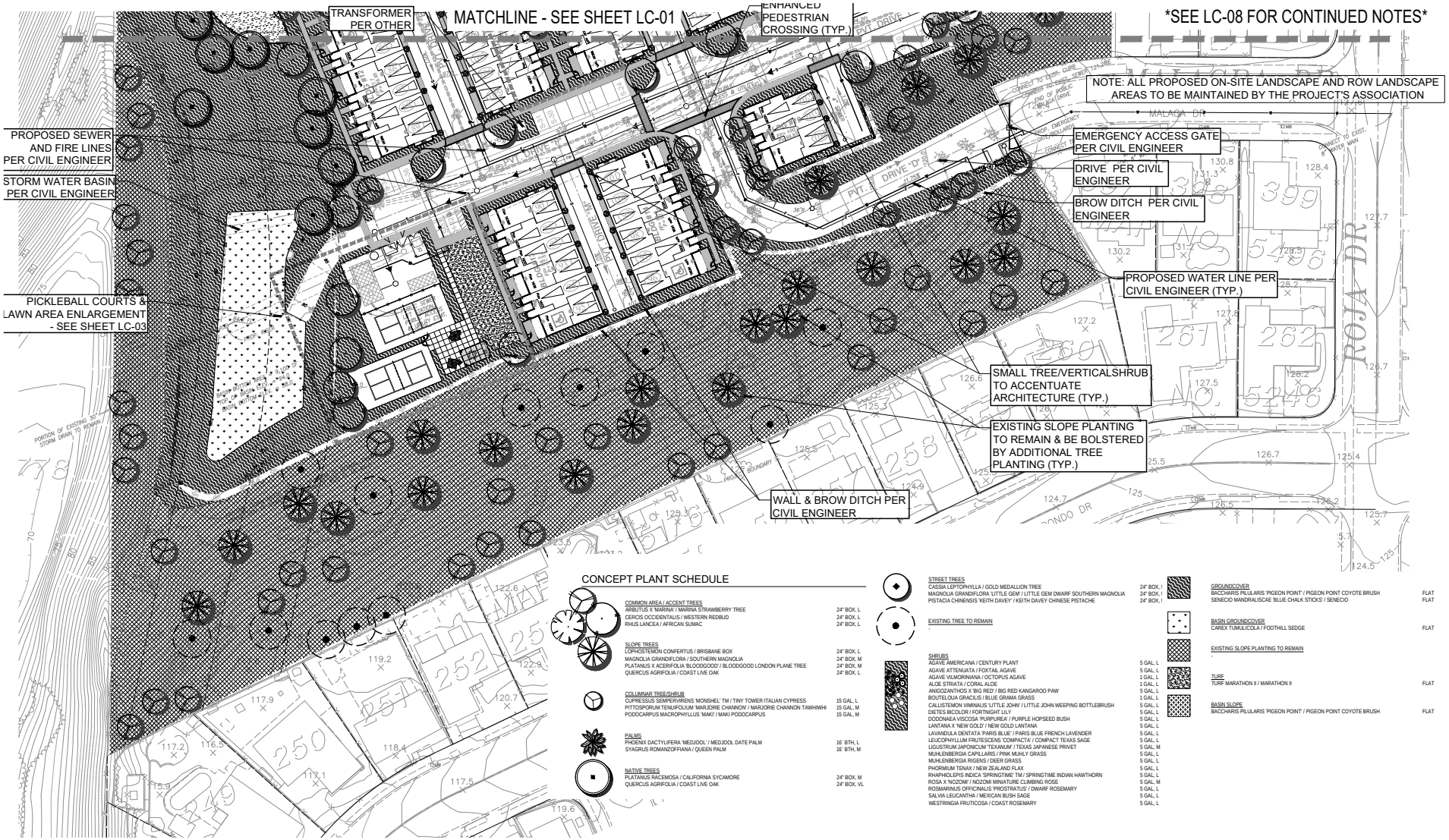


Figure 2.3.1. Conceptual Landscape Plan

Figure 2.3.2. Conceptual Landscape Plan

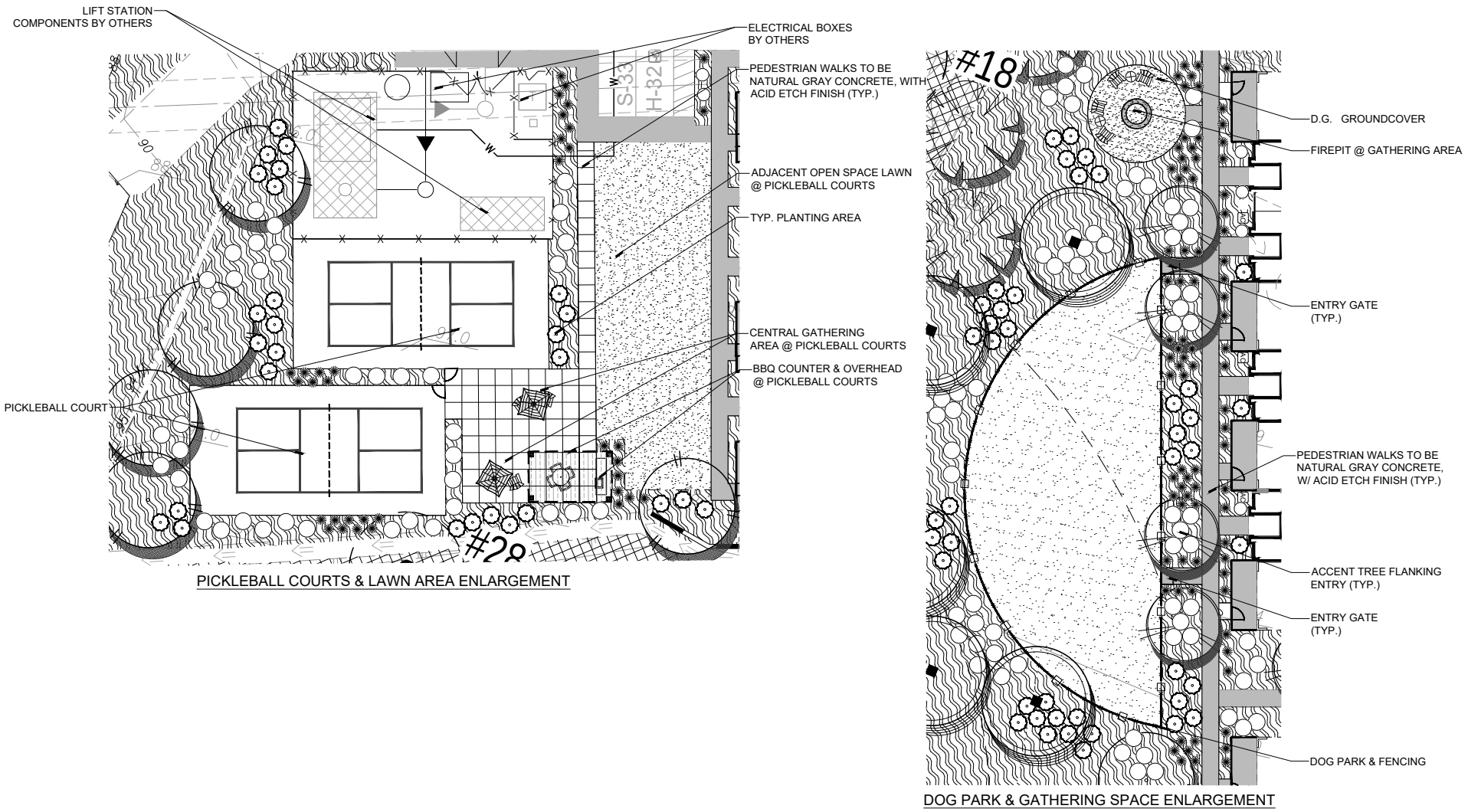
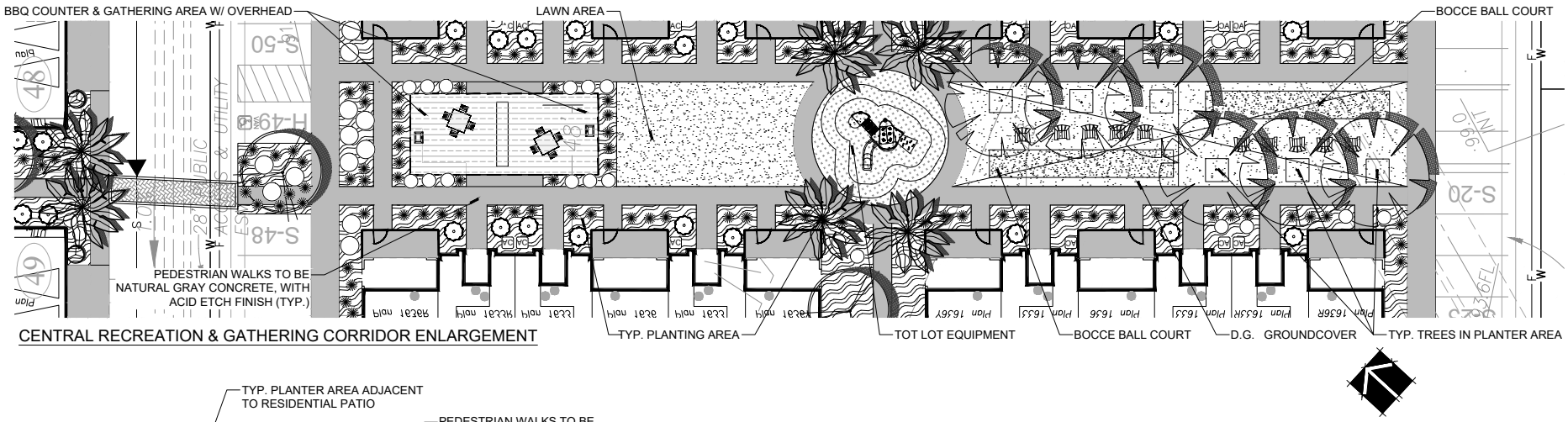
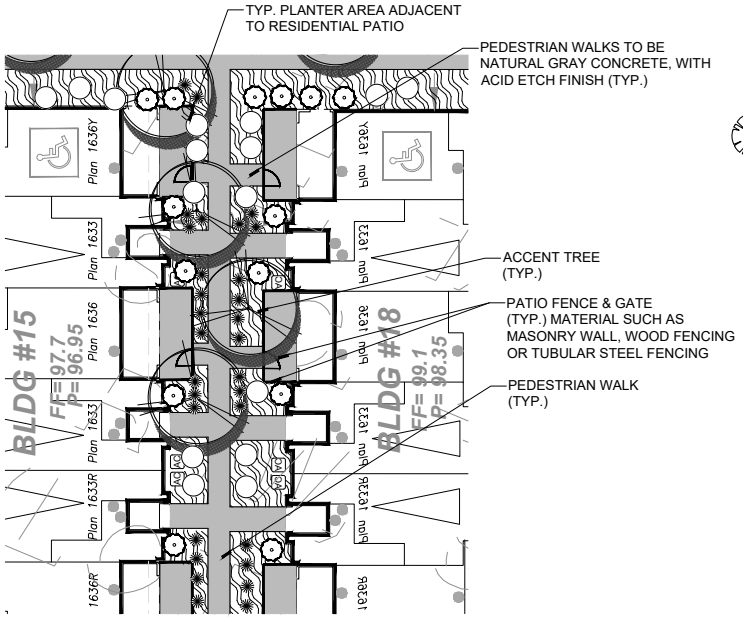


Figure 2.4. Conceptual Pickleball Courts and Dog Park Areas



CENTRAL RECREATION & GATHERING CORRIDOR ENLARGEMENT



TYP. RESIDENTIAL COURTYARD ENLARGEMENT

CONCEPT PLANT SCHEDULE

COMMON AREA / ACCENT TREES		
ARBUTUS X 'MARINA' / MARINA STRAWBERRY TREE	24" BOX, L	
CERCIS OCCIDENTALIS / WESTERN REDBUD	24" BOX, L	
RHUS LANCEA / AFRICAN SUMAC	24" BOX, L	
SLOPE TREES		
LOPHOSTEMON CONFERTUS / BRISBANE BOX	24" BOX, L	
MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA	24" BOX, M	
PLATANUS X ACERIFOLIA 'BLOODGOOD' / BLOODGOOD LONDON PLANE TREE	24" BOX, M	
QUERCUS AGRIFOLIA / COAST LIVE OAK	24" BOX, L	
COLUMNAR TREE/SHRUB		
CUPRESSUS SEMPERVIRENS 'MONSHEL' TM / TINY TOWER ITALIAN CYPRESS	15 GAL, L	
PITTOSPORUM TENUIFOLIUM 'MARJORIE CHANNON' / MARJORIE CHANNON TAWHIWHI	15 GAL, M	
PODOCARPUS MACROPHYLLUS 'MAKI' / MAKI PODOCARPUS	15 GAL, M	
PALMS		
PHOENIX DACTYLIFERA 'MEDJOOL' / MEDJOOL DATE PALM	16' BTH, L	
SYAGRUS ROMANZOFFIANA / QUEEN PALM	16' BTH, M	
NATIVE TREES		
PLATANUS RACEMOSA / CALIFORNIA SYCAMORE	24" BOX, M	
QUERCUS AGRIFOLIA / COAST LIVE OAK	24" BOX, VL	
STREET TREES		
CASSIA LEPTOPHYLLA / GOLD MEDALLION TREE	24" BOX, M	
MAGNOLIA GRANDIFLORA 'LITTLE GEM' / LITTLE GEM DWARF SOUTHERN MAGNOLIA	24" BOX, M	
PISTACIA CHINENSIS 'KEITH DAVEY' / KEITH DAVEY CHINESE PISTACHE	24" BOX, M	
EXISTING TREE TO REMAIN		
SHRUBS		
AGAVE AMERICANA / CENTURY PLANT	5 GAL, L	
AGAVE ATTENUATA / FOXTAIL AGAVE	5 GAL, L	
AGAVE VILMORINIANA / OCTOPUS AGAVE	1 GAL, L	
ALOE STRIATA / CORAL ALOE	1 GAL, L	
ANIGOZANTHOS X 'BIG RED' / BIG RED KANGAROO PAW	5 GAL, L	
BOUTELOUA GRACILIS / BLUE GRAMA GRASS	1 GAL, L	
CALLISTEMON VIMINALIS 'LITTLE JOHN' / LITTLE JOHN WEEPING BOTTLEBRUSH	5 GAL, L	
DIETES BICOLOR / FORTNIGHT LILY	5 GAL, L	
DODONAEA VISCOSA 'PURPUREA' / PURPLE HOPSEED BUSH	5 GAL, L	
LANTANA X 'NEW GOLD' / NEW GOLD LANTANA	5 GAL, L	
LAVANDULA DENTATA 'PARIS BLUE' / PARIS BLUE FRENCH LAVENDER	5 GAL, L	
LEUCOPHYLLUM FRUTESCENS 'COMPACTA' / COMPACT TEXAS SAGE	5 GAL, L	
LIGUSTRUM JAPONICUM 'TEXANUM' / TEXAS JAPANESE PRIVET	5 GAL, M	
MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	5 GAL, L	
MUHLENBERGIA RIGENS / DEER GRASS	5 GAL, L	
PHORMIUM TENAX / NEW ZEALAND FLAX	5 GAL, L	
RHAPHIOLEPIS INDICA 'SPRINGTIME' TM / SPRINGTIME INDIAN HAWTHORN	5 GAL, L	
ROSA X 'NOZOMI' / NOZOMI MINIATURE CLIMBING ROSE	5 GAL, M	
[illegible]	5 GAL, L	
	GAL, L	
	GAL, L	

GROUNDCOVER		
BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH	FLAT	
SENECIO MANDRALISCAE 'BLUE CHALK STICKS' / SENECIO	FLAT	
BASIN GROUNDCOVER		
CAREX TUMULICOLA / FOOTHILL SEDGE	FLAT	
EXISTING SLOPE PLANTING TO REMAIN		
-		
TURF		
TURF MARATHON II / MARATHON II	FLAT	
BASIN SLOPE		
BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH	FLAT	

Figure 2.5. Conceptual Central Paseo and Courtyard Areas

2.2.3. Wall and Fence Regulations

The review of walls and fences shall be an integral part of any site plan, permit, or Site Development Plan Review application. Compliance with all wall and fence regulations contained herein shall be required, unless otherwise modified by a DP.

a. Development within the planning shall be designed to minimize walls and fences to support an open community.

b. No walls or fences in excess of three and a half (3.5) feet in height are permitted within the required front setback. All other walls and fences shall not exceed six (6) feet in height. Decorative Pilasters may exceed the maximum permitted height by up to one (1) foot. Taller walls and fences are permitted for retaining or sound attenuation purposes up to a maximum of fifteen (15) feet in height.

c. The height of all walls, fences, and architectural screening elements shall be measured from the finished grade at the base of the wall to the highest point of the element.

d. Where additional height is needed based on security or specific site operating requirements, additional wall/fence height may be approved through a DP, subject to evaluation of adjacencies and necessity.

e. Walls, fences, and architectural screening elements shall be compatible with the architectural treatment of the primary building on the parcel.

f. No wall, fence, or landscaping element shall interfere with intersection visibility, line of sight, or other safety issue.

g. Blank walls are prohibited. Where screening or security walls (excluding wrought iron or other “open” fence types) are located within ten (10) feet of a public right-of-way, landscaping shall be provided between the wall and the right-of-way to a minimum height of four (4) feet to minimize opportunities for crime and unsafe conditions.

h. Retaining walls above four (4) feet in height will be designed as plantable walls with landscape screening to improve their appearance.

i. Approved materials include wood, vinyl, stone, masonry, brick, block, stucco, wrought iron/steel, concrete. Comparable materials are permitted subject to approval of the Director.

j. Prohibited materials include barbed, razor, concertina, corrugated metal and plastic, tarps, and electrified wire of any kind or configuration. Chain-link fencing and similar material are prohibited along any public right-of-way regardless of setback. Where chain-link is used, it shall not be visible from the public right-of-way.

2.2.4. Landscaping Regulations

All open space areas shall be landscaped in accordance with the City of Oceanside's Water Conservation Master Plan. All required landscaping shall be permanently maintained in a healthy and thriving condition, free from weeds, trash, and debris.

2.3. Pedestrian Circulation

The planning area is located within walking distance of numerous uses, services, and facilities that make Pacifica a walkable, transit-oriented community. Within the planning area, the Project establishes a highly connected and efficient circulation system of sidewalks and pathways supported by pedestrian friendly architecture and landscaping. Walkways are designed to provide access in accordance with the Americans with Disability Act (ADA) and to promote walkability and connectivity within the site and to the existing neighborhood. See Figure 2.6. Conceptual Pedestrian Circulation.

2.4. Sustainability

The project proposed by this PD includes a variety of sustainable features and practices intended to reduce energy consumption. This housing will be designed to meet or exceed current building codes and standards. The California Building Code includes the most stringent requirements in the United States for water, material, and energy efficiency; improved air quality; and more. New homes will have features including photovoltaic panels, spray foam insulation, thermal breaks, low-e windows, energy star appliances, and sealed insulated ducts. Landscaping for the Project utilizes a palette of drought tolerant and California native plant palettes.

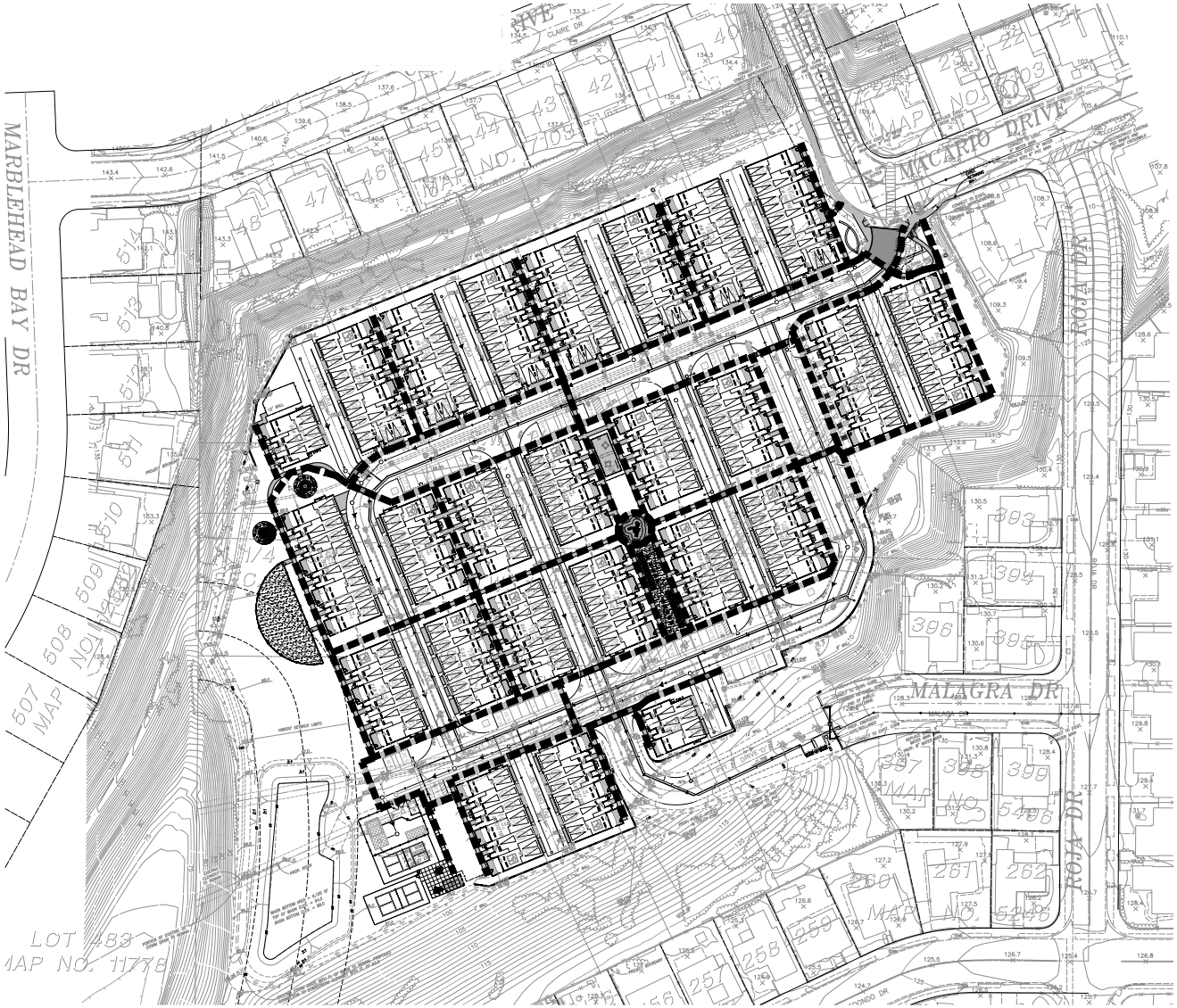


Figure 2.6. Conceptual Pedestrian Circulation

3 - Architectural Design

3.1. Applicability

Design guidelines are provided to supplement and enhance development standards and regulations as a means to ensure high quality design. Unlike development standards and regulations, design guidelines are intended to be more flexible to allow designers creativity in achieving the design intent and vision for the planning area. While designers are encouraged to adhere to the guidelines contained herein, they are also encouraged to pursue creative designs. Creative designs may not always fit exactly within the guidelines contained herein but are permitted when the Director determines that a particular design offers an equal or superior solution that supports the high-quality urban living environment envisioned by the PD.

3.2. Architectural Styles

The architectural style or styles of buildings within a community strongly define a community's character. To create successful communities, architectural design must embody methods that are flexible enough to meet the changing needs of the consumer market yet, must also be visually pleasing and complementary to the surrounding neighborhood. Pacifica aims to provides a contemporary interpretation of traditional styles found in the existing single family neighborhood surrounding the site.

The Pacifica community is made up of multiple building types. This variation in building types provides diversity between buildings within the planning area. The six-plex (6-plex) and eight-plex A (8-plex A) buildings occurs over seven times each within the community; therefore, additional variation is required and can be achieved through the design of at least two (2) architectural styles.

The project proposes two variations of the Spanish Eclectic style that blend classic elements from the Spanish vernacular with modern construction techniques. Simple massing with a combination of hipped and gabled roof forms are accentuated with stylistic features found in traditional Spanish homes such as arched stucco column porches and decks, clay tile vents, shutters, and stucco over foam window and door trim. These styles combined with a minimum of four (4) color schemes, will work together to create diversity throughout the community.

It should be noted that architecture within the planning area should not be limited to only the styles presented herein. Additional transitional architectural styles not represented in this chapter are permitted within the planning area so long as any proposed architecture is found to be an appropriate design by the City of Oceanside Development Services Department and consistent with design guidelines set forth in the sections below.

3.3 Floor Plans and Elevations

Floor plans should be designed to provide a variety of floor plans that offer different price points for varying income levels. Floor plans range from two (2) to four (4) bedrooms and have an office, niche, or flex space to support working from home. The PD proposes three (3) floor plans and four (4) building types. Floor plans area summarized in Table 3.1. Conceptual Floor Plan Summary and building types are summarized in Table 3.2. Building Type Summary. Final configurations will be approved by the City of Oceanside Development Services Department.

Table 3.1. Conceptual Floor Plan Summary

Plan No.	Square Footage	Bedroom Count	Garage Configuration	Unit Count
2532	121	2	2-car, Side-by-Side	14
1633	1497	3	2-car, Tandem	76
1636	1791	4	2-car, Side-by-Side	74
Total				**164**

Table 3.2. Building Type Summary

Building Type	Plan 2532	Plan 1633	Plan 1632	Total Units per Building	Total Number of Buildings
301	0	2	1	3	2
601	0	3	3	6	13
801	2	3	3	8	7
802	0	4	4	8	3
Total					**25**

The conceptual location for each building type is illustrated Figure 3.1. Conceptual Plotting Plan. Conceptual floor plans and two (2) conceptual elevation styles are illustrated in Figures 3.2.1. through 3.2.14. Styles have Spanish influences expressed in contemporary interpretation. The "A" elevation has Spanish influences with a varying hip roof forms and concrete "s" tile roofing. Primary wall material is stucco with additional details include shutters, soft arches, vertical railing and vent pipes. The "B" elevation varies its Spanish influences with a combination of gable and hip roof forms and concrete "s" tile roofing. Primary wall material is stucco with details including covered entries and porches, vertical railing, and shutters. Colors help articulate the massing of the building while being compatible as a theme throughout the community.

3.4 Massing and Scale

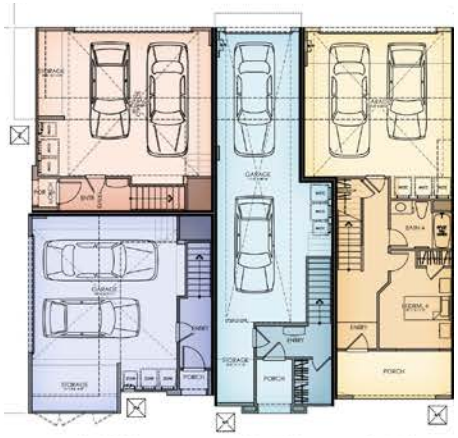
Massing and scale provide the visual identity between residential dwelling units and the environment. Those qualities help dictate the placement, size, and form for multi-family residential buildings within the planning area. Building type placement within the planning area was studied to achieve the best possible groupings as well as providing transition massing from the street, thereby enhancing the visual character of the neighborhood. Incorporation of the following design concepts should be considered for the architecture within the planning area:

- Utilize building-form elements, such as plane breaks, roof forms, and changes in material to define individual units.
- Vertically and horizontally articulate building design for both front and rear elevations.
- Break up long unbroken surfaces on front elevations by providing a change in plane at least every 25 feet.
- Break up long unbroken surfaces on rear elevations by provide second/third floor cantilevers over every other garage door.

Figure 3.1. Conceptual Plotting Plan

Third Floor

Second Floor



First Floor

Plan 2532
- 1,210 SF
- 2 Bedroom
- 2.5 Bath
- 83 SF Deck

Plan 1633
- 1,497 SF
- 3 Bedroom
- 3 Bath
- 107 SF Deck

Plan 1636
- 1,791 SF
- 4 Bedroom
- 4 Bath
- Office
- Adaptable Ground-Floor Bath (ADA)
- 110 SF Deck

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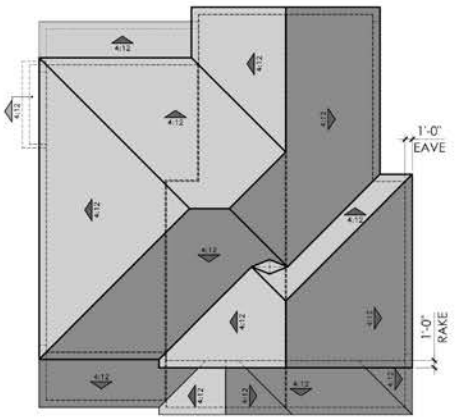
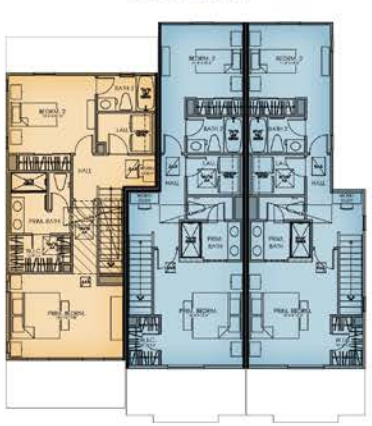
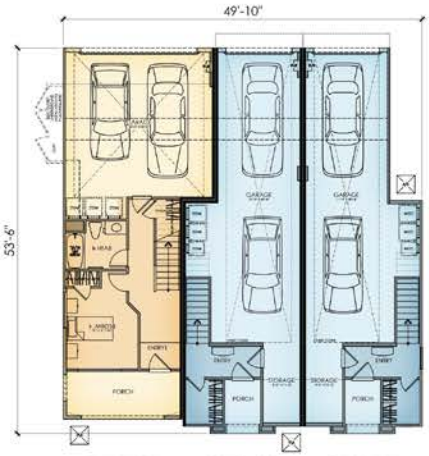
Figure 3.2.1. Conceptual Architecture - Floor Plans



Roof



Third Floor



First Floor

Second Floor

Figure 3.2.2. Conceptual Architecture - 3-plex Building Floor Plan

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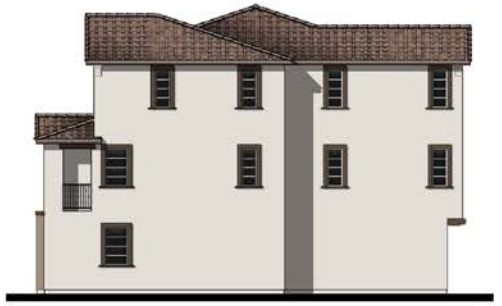
Front



Right

Rear

Left

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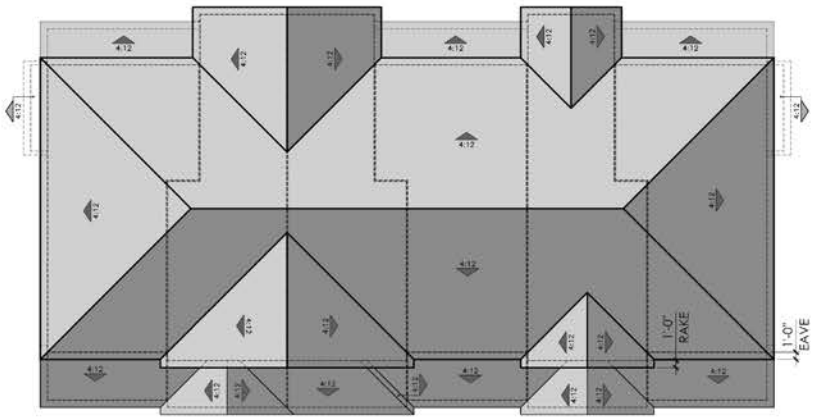
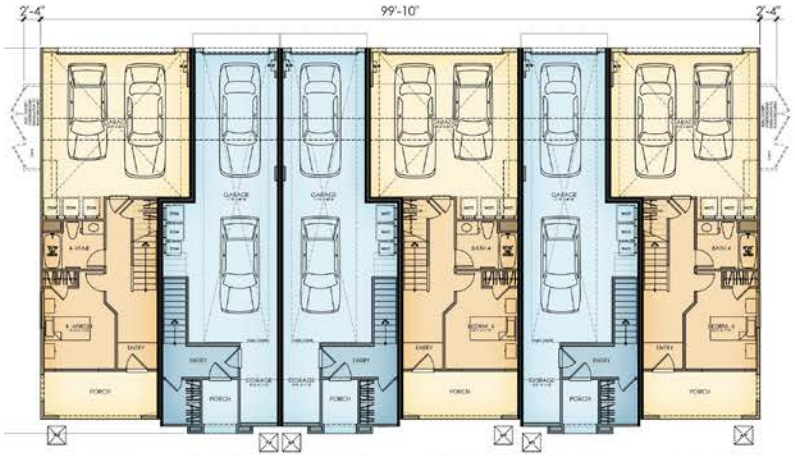
Figure 3.2.3. Conceptual Architecture - 3-plex Building Elevation



Roof

Third Floor



First Floor

Second Floor

Figure 3.2.4. Conceptual Architecture - 6-Plex Building Floor Plans

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Front

Right

Rear

Left

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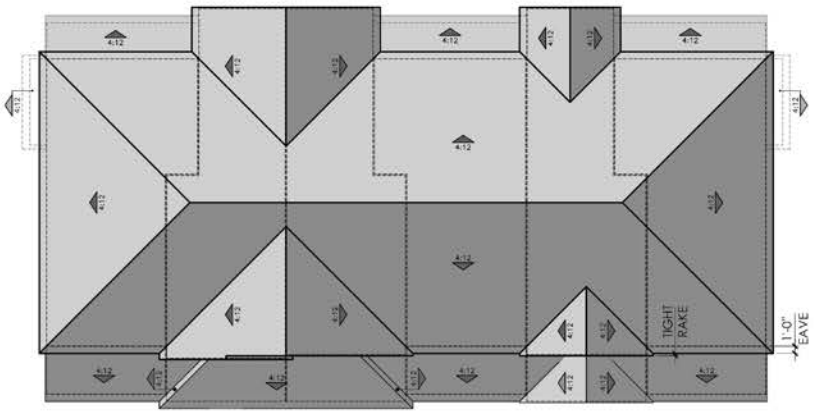
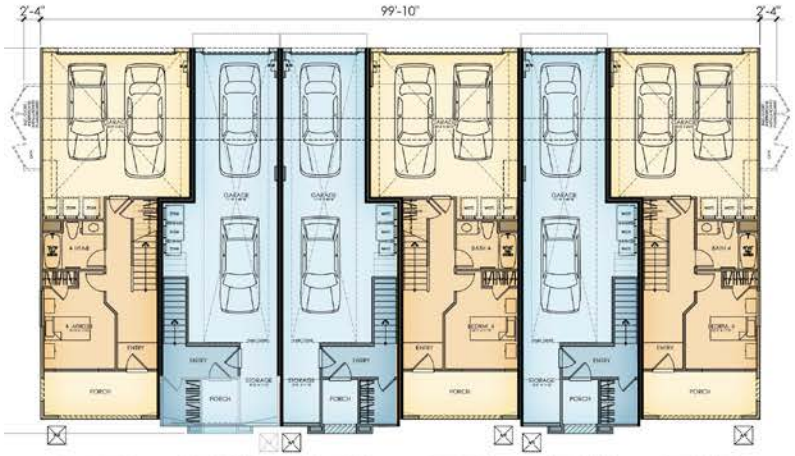
Figure 3.2.5. Conceptual Architecture - 6-plex Building Elevation "A"



Roof

Third Floor



First Floor

Second Floor

Figure 3.2.6. Conceptual Architecture - 6-Plex Building Floor Plans

Kevin L. Crook Architect Inc
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Front

Right

Rear

Left

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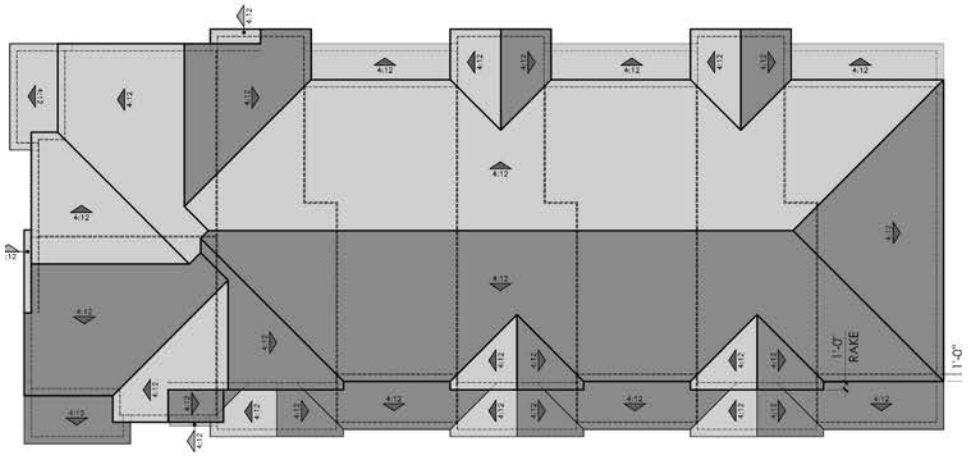
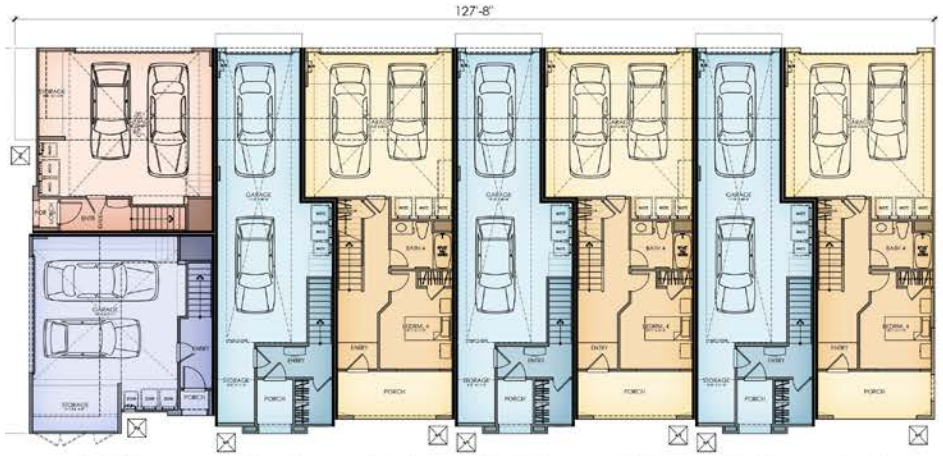
Figure 3.2.7. Conceptual Architecture - 6-plex Building Elevation "B"



Roof

Third Floor



First Floor

Second Floor

Figure 3.2.8. Conceptual Architecture - 8-plex A Building Floor Plan

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Front

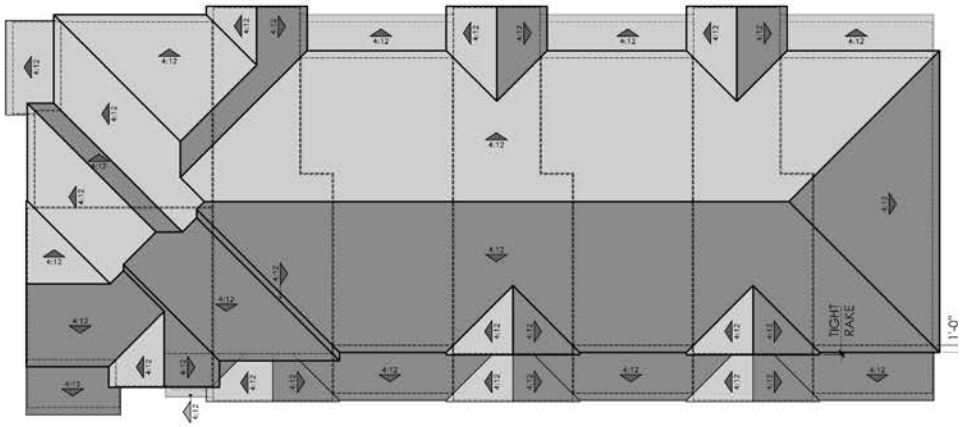
Right

Rear

Left

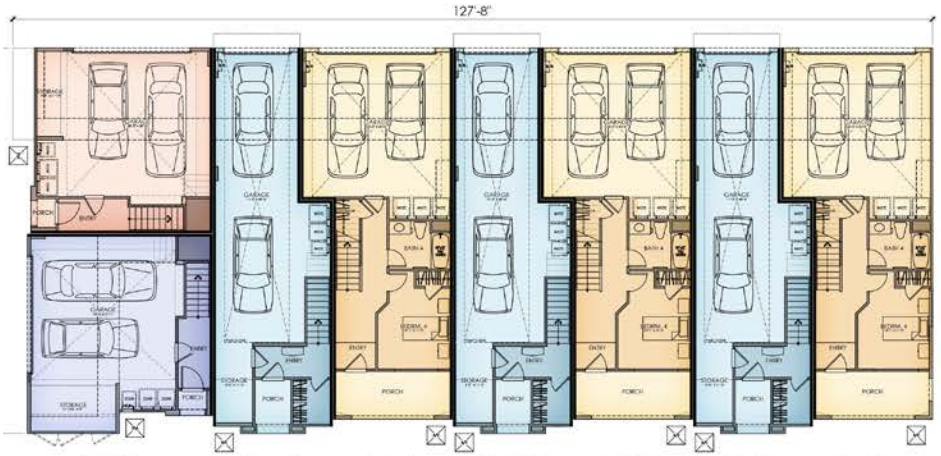
Kevin L. Crook Architect Inc
PLANNING + ARCHITECTURE

Figure 3.2.9. Conceptual Architecture - 8-plex A Building Elevation "A"



Roof

Third Floor



First Floor

Second Floor

Figure 3.2.10. Conceptual Architecture - 8-plex A Building Floor Plan

Kevin L. Crook Architect Inc
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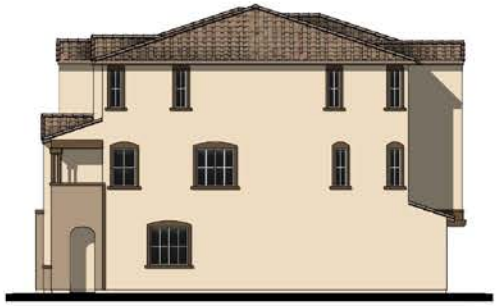
Front



Right

Rear

Left

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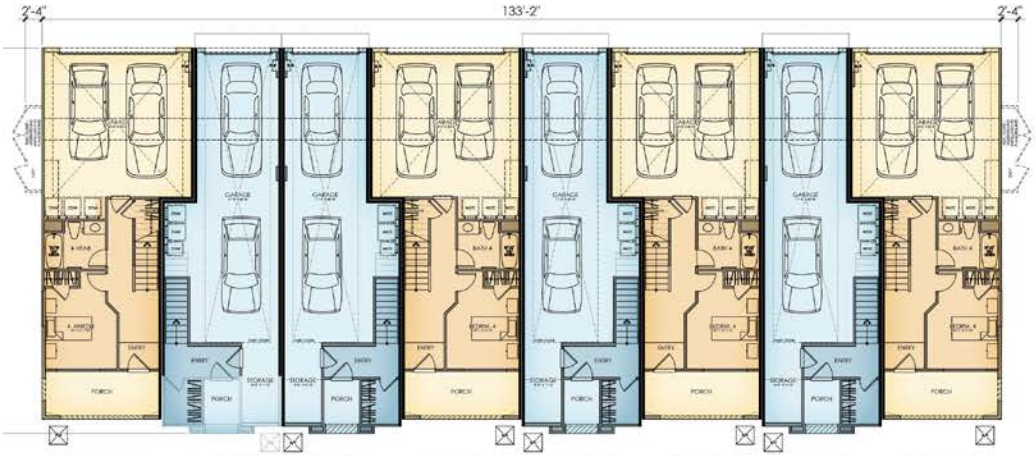
Figure 3.2.11. Conceptual Architecture - 8-plex A Building Elevation "B"

Second Floor



First Floor

Figure 3.2.12. Conceptual Architecture - 8-plex B Building Floor Plan

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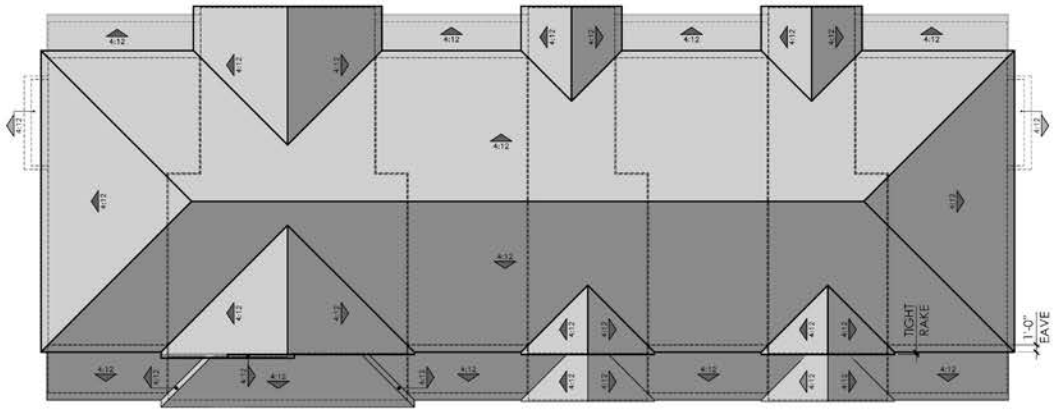

Roof

Third Floor

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Figure 3.2.13. Conceptual Architecture - 8-plex B Building Floor Plan

Front

Right

Rear

Left

Figure 3.2.14. Conceptual Architecture - 8-plex B Building Elevation "B"

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3.5 Building Materials, Accents and Colors

Materials are a key factor in defining architectural styles, convey a sense of quality, and contribute to the community's character. Building color is an integral component in unifying buildings, creating variation of street scape, and building on the foundation of the community aesthetic. The following guidelines should be considered when sleeting materials and colors:

- Select material and colors that are appropriate for each facade, and contribute to enhancing the neighborhoods visual theme, match the theme of the specific style of home to which they are applied.
- Use materials and colors to accentuate changes in massing, define individual units, and complement architectural materials and features.
- Choose colors and materials that complement each other, complement neighboring developments, and add depth to the community.
- Avoid materials and colors that significantly clash with the surrounding neighborhood.
- Avoid the use of identical color palettes where possible for adjacent buildings,
- Use colors palettes to distinguish individual buildings within the planning area and improve the visual interest of streetscapes.
- Appropriate materials include wood, stone veneer, stucco, and brick. Metal accents and trims are acceptable within the planning area.
- Choose colors to achieve a reasonable representation of a particular architectural style lending authenticity to the final product.
- Accents colors should complement the palette of the main structure.

Figure 3.3.1 through 3.3.4 provide conceptual color and materials schemes chosen to accompany the architecture shown in Figures 3.2.1. through 3.2.14.; however, alternative materials and colors may be allowed so long as they are determined to be acceptable by the Development Services Department.

Figure 3.3.1. Color and Material Scheme 1

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Figure 3.3.2. Color and Material Scheme 2

Figure 3.3.3. Color and Material Scheme 3

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Figure 3.3.4. Color and Material Scheme 4

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4 - General Plan and Zoning Consistency

4.1. Permitted Uses

The permitted uses under this PD Plan are defined in Section 1020(C) of the Zoning Ordinance and as follows:

1. Multiple Unit Structures (MUS). A structure or a group of structures containing two or more dwelling units on a single property. Subdivision of the property may exist to permit ownership of air space in the form of a dwelling unit with an undivided share in common elements. The property may also be divided for the purpose of ownership in the form of a stock cooperative.

4.2. General Plan

Development of the Project requires amending the City of Oceanside's General Plan land use designation. The current General Plan land use designation for the planning area is Civic Institution (CI). This designation does not allow for residential uses as it is intended for public and quasi-public uses and facilities. The change in general plan land use to Medium Density Residential - B (MDB-R) will allow for housing to be developed on the site at an appropriate scale for the area and size of parcel. The proposed General Plan land use designation will be consistent with that of the adjacent residential developments in the surrounding area that include SFD-R, MDB-R, MDC-R, and HD-R properties. Upon amendment of the General Plan to designate the property as MDB-R, the proposed Project will be consistent with the General Plan as outlined below.

4.3. Consistency with General Plan

Section 2.3 of the City of Oceanside's General Plan Land Use Element identifies objectives and policies for residential development throughout the City. As such, the stated objective of this section is:

> *To direct and encourage the proper type, location, timing, and design of housing to benefit the community consistent with the enhancement and establishment of neighborhoods and a well balanced and organized City.*

To meet this objective, the City has established policies within the same section. As previously stated, the proposed General Plan land use designation for the Project is Medium Density Residential - B (MDB-R). The proposed density for the Project is within the density range identified on Table LU-1 of the Land Use Element.

Table 4.1. Project Density

Allowed Density Range	Proposed Project Density
Medium Density B: 10.0 - 15.0 du/ac	12.8 du/ac

The Medium Density B (RM-B) District allows for a base density is 10.0 dwelling units per gross acre and a maximum potential density is 15.0 dwelling units per gross acre. Pursuant to Article 3, Section 330, Definitions of the City of Oceanside Comprehensive Zoning Ordinance (COCZO). "Density is calculated by dividing the number of residential dwelling units by the total number of gross developable areas of land. Lands Considered undevelopable per Section 1.25 of [sic] the Land Use Element shall not be included in density calculations." Section 1.25 of the City of Oceanside General Plan Land Use Element states that "Undevelopable lands include slopes in excess of forty percent (40%) with a minimum elevation differential of twenty-five (25) feet." Based on this definition, the project's gross acreage for calculating density is 12.82 acres, giving the project a density of 12.8 du/ac.

To exceed the base density of 10.0 for the Medium Density B designation, the project must provide superior design features. The proposed project includes the following characteristics that provide excellence in design:

- Exceeding lot standards for lot area, width, depth, and area per unit.
- Exceeding development standards for parking, open space, landscaping, and urban forestry.
- Superior architectural and landscape design and materials.
- Superior recreation facilities and amenities including a dog park, pickleball courts, lawn game areas, community gathering spaces, and more.
- Consolifation of existing legal lots to provide a unified site design.

The Land Use Element also identifies long range policy direction goals, policies and objectives that, broadly, are designed to:

- Provide the consistent, significant, long term preservation and improvement of the environment, values, aesthetics, character, and image of Oceanside as a safe, attractive, desirable and well-balanced community.

- Provide the continual long term enhancement of the community through the development and use of land which is appropriate and orderly with respect to type, location, timing, and intensity.
- Provide continual evaluation of the state of the environment and formulation of a program of planned management, wise utilization and preservation of natural resources to ensure the health, safety, and welfare of the present and future generations.

The Pacifica Planned Development Plan achieves this as follows:

- The Planned Development ensures land use diversity and balanced development by taking a site that is largely already graded with no environmental sensitivities and proposed to utilize the property to its highest and best use. Well thought out site planning and architectural design provide an attractive and highly desirable new housing development in a community that is otherwise built out. Existing adjacencies are respected through large setbacks and respecting existing slopes that surround the site. Natural features are preserved through a large setback from existing riparian habitat. The Project has a small window into the existing community along Monica Circle and Macario Drive that will be enhanced by front doors engaging with the street and high quality architecture that provides a updated look on traditional styles. Housing diversity is maximized by a range of unit types that appeal to different buyer segments while still filling the need for well built workforce housing.
- The proposed development maintains community connection by remaining ungated with minimal walls to create a community that is open to the surrounding neighborhood. Walkways, architecture, and landscaping are designed to maximize pedestrian connectivity and encourage walkability.
- New housing proposed by the PD will be high quality, sustainable development, designed to meet or exceed current building codes and standards. The California Building Code includes the most stringent requirements in the United States for water, material, and energy efficiency; improved air quality; and more. The PD also implements the strategies of the City's Climate Action plan to reduce GHG emissions by including elements that support transit use, active modes of transportation, and the use of electric vehicles. Proximity to transit and trails and the walkable design of the community have the potential to reduct VMT for improved air quality.
- The PD provides a detailed set of architectural and landscape design guidelines to ensure a distinctive built environment with unique and memorable amenities and spaces.

4.4. Zoning Ordinance

Development of the Project also requires amending the Zoning Ordinance. Currently, the entire property is designation as Civic/Public (PS) which does not allow for housing. A Zone Amendment is proposed that will designate the entire property as Planned Development (PD) with the Pacifica Planned Development Plan serving as the regulating document. The requirements for a Planned Development are established in Article 17 of the Zoning Ordinance, with several sections governing the development of projects in this zone.

Section 1702 - Land Use Regulations

Section 1702 states that no use, other than the existing use at the time of establishment of a PD District, shall be permitted except in accordance with a valid PD Plan or Specific Plan. No other uses are proposed other than those included within this PD Plan.

Section 1703 - Development Regulations

Section 1703 specifies the following regulations apply to development of a project within a PD District:

- Minimum Area: The minimum net area of a PD District shall be 4 acres. The proposed Project site has a net developable area of 12.82 acres, with the development pad area of 10.23 acres.
- Residential Unit Density: The residential density allowed by the PD District shall not exceed the maximum density permitted by the General Plan. The Project proposes a General Plan Amendment to Medium Density Residential - B which would allow up to 15 du/ac. The proposed project would be consistent with this density range.
- Performance Standards: The performance standards prescribed by Section 3024 shall apply. Section 3024 defines performance standards regarding noise, vibration, dust, odors, glare, and combustible, explosive, radioactive, and hazardous materials that apply to all use classifications in all zoning districts. The Project shall comply will all standards set forth in Section 3024 of the Zoning Ordinance.

4.5. Consistency with Zoning and Findings

Section 1706.A. establishes the required findings that Planning Commission is required to consider in order to make a recommendation for approval of a PD Plan.

1. The PD or Specific Plan and the Development Plan are consistent with the adopted Land Use Element of the General Plan and other applicable policies and are compatible with surrounding development.

The proposed PD Plan is consistent with the General Plan Land Use Element as the PD and Development Plan will be approved concurrently with a General Plan Amendment. This amendment will change the land use designation to Medium Density Residential - B which allows for housing

developments up to 15.0 du/ac and is consistent with the type of housing proposed. Additionally, the Project proposes a density of 12.8 du/ac which, though above the base density, is well within th range for the proposed land use. The project sits below adjacent uses and has increased setbacks from the surrounding single family homes than the minimum standards require which reduce impacts on the surround development. Additionally, high quality architecture with a range of floorplans and amenities provide a highly desirable community for future homeowners to find attainable housing in the City.

2. The PD Plan or Specific Plan and the Development Plan will enhance the potential for superior urban design in comparison with the development under the base district regulations that would apply if they were not approved.

The PD Plan will result in a superior land use design in comparison with development permitted under the base district regulations. The PD Plan allows for a more creative site design with new homes that will be a high quality, sustainable development, designed to meet or exceed current building codes and standards. The proposed project is able to blend into the existing fabric of the neighborhood by engaging with the pedestrian realm along Monica Circle while drawing residents into a community nestled back from the street. Multiple amenities are located throughout the site creating an environment that encourages neighbor interaction and community gathering. Architectural styling and detail draw on the history of the neighborhood and provide an updated take on traditional styles.

3. Deviations from the base district regulations that otherwise would apply are justified by compensating benefits of the PD Plan or Specific Plan and the Development Plan.

Deviations from the base district regulations allow for the creation of a high quality urban living environment that provides strong pedestrian connectivity to surrounding and modern recreational amenities. The residential community will create a physical environment that optimizes social interaction through the flexible design of common amenity areas. The development standards and design guidelines will provide for a consistent architectural theme and a unified site design that ensure residents can enjoy unique common amenities as well as their own private open space.

4. The PD Plan or Specific Plan and the Development Plan includes adequate provisions for utilities, services, and emergency vehicle access; and public service demands will not exceed the capacity of the existing and planned systems.

The PD Plan and the Development Plan include adequate provisions for utilities, services, and emergency vehicle access. Furthermore, public service demands will not exceed the capacity of the existing and planned systems. As designed, all buildings and other site improvements will accommodate all necessary utilities and services. Emergency vehicle access is provided through a looping circulation pattern with a secondary EVA to and from the site. Similarly, trash and other services will be able to circulation through the site as needed to ensure the needs of the community are met.

Appendix C

Air Quality and Greenhouse Gas Emissions Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Pacifica Development Project

City of Oceanside, California

JUNE 2023

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A CalEEMod Outputs and Estimated Emissions
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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CARB	California Air Resources Board
CalEEMod	California Emissions Estimator Model
CEQA	California Environmental Quality Act
CO	carbon monoxide
DPM	diesel particulate matter
EPA	U.S. Environmental Protection Agency
g/L	grams per liter
HAP	hazardous air pollutant
kWh	kilowatt-hour
LOS	level of service
NAAQS	National Ambient Air Quality Standards
NO	nitric oxide
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
$PM_{2.5}$	fine particulate matter
PM_{10}	coarse particulate matter
RAQS	Regional Air Quality Strategy
SANDAG	San Diego Association of Governments
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric Company
SIP	state implementation plan
SO_2	sulfur dioxide
SO_x	sulfur oxides
TAC	toxic air contaminant
VOC	volatile organic compound

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Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emission impacts associated with implementation of the Oceanside Pacifica Development Project (Project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

Project Overview

The proposed Project consists of a for-sale 164-unit Planned Development Community to be developed on a 14.55-acre site located at the former Pacifica Elementary School site at 4991 Macario Drive in the City of Oceanside (City), California. The proposed neighborhood will consist of three-story attached townhomes oriented towards internal paseos and drives throughout the site. New homes will range in size from a minimum of approximately 1,200 square feet to 1,800 square feet with two (2) to three (3) bedrooms and an attached 2-car garage (either side-by-side or tandem configuration). Each home will include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 53,700 square feet of open space, will be designed with urban-style amenities such as tot lots, an off-leash dog space, pickle ball courts, bocce ball areas, barbecue areas, and space for a variety of outdoor games.

Project Design Features

The proposed Project would implement both construction-related and operational project design features (PDFs) intended to reduce emissions of criteria air pollutants, toxic air contaminants (TACs), and GHG emissions. The Project would implement **PDF-AQ-1**, **PDF-AQ-2**, and **PDF-GHG-1** as follow:

PDF-AQ-1: Require the installation of only electric or natural gas fireplaces in future residential construction. Future residential units are prohibited from having wood-burning fireplaces or stoves.

PDF-AQ-2: Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites two times per day, depending on weather conditions. Construction of Project components would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust that may be generated during grading and construction activities.

PDF-AQ-3: The Project will provide temporary electricity to the project site during the building construction phases and prohibit the use of diesel-fueled/natural gas fueled generators during the building construction phases.

PDF-AQ-3: The Project will limit air compressors used during the architectural coating/painting phases to equipment that is electric-powered.

PDF-GHG-1: Photo-voltaic (PV) systems will be installed on each building to meet 50% of forecasted electricity demand.

Air Quality

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the Project. The State CEQA Guidelines allow lead agencies to use the

significance criteria established by the applicable air quality management district or air pollution control district to evaluate a project's impacts to air quality. The San Diego Air Pollution Control District (SDAPCD) has not developed thresholds of significance for air quality and health risk, however, the SDAPCD has provided emission levels under its permitting authority for new source review for which an Air Quality Impact Assessment (AQIA) is triggered. The County of San Diego has reviewed SDAPCD's trigger levels, as well as EPA rulemaking, and CEQA thresholds adopted by the South Coast Air Quality Management District (SCAQMD) to develop screening-level thresholds (SLTs) to assist lead agencies in determining the significance of project-level air quality impacts within the County. The City of Oceanside has chosen to apply the County of San Diego SLT's for determining mass daily criteria air pollutant thresholds of significance. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (criteria) for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. VOCs and NO_x are important because they are precursors to O_3.

Air Quality Plan Consistency

If a project proposes development that is greater than that anticipated in the local plan and the growth projections set by the San Diego Association of Governments (SANDAG), the project might be in conflict with the State Implementation Plan and SDAPCD Regional Air Quality Strategy, and therefore may contribute to a potentially significant cumulative impact on air quality. The Project was deemed to be consistent with the current air quality plan because although it would require a general plan amendment and rezone, the development intensity would be consistent with the existing land use designations and the anticipated growth associated with the Project does not exceed that projected by SANDAG. In addition, the Project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations as evidenced by its construction and operational emissions being less than County of San Diego thresholds of significance. Based on these considerations, impacts related to the Project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

Cumulatively Considerable Net Increase in Nonattainment Criteria Air Pollutant Emissions

Construction of the Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). The maximum daily construction emissions would not exceed the County of San Diego significance thresholds for VOCs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during construction. Therefore, the Project would have a less than significant impact.

The analysis herein assumed an operational year of 2026. Operation of the Project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, and landscape maintenance equipment), and energy (natural gas). Maximum operational emissions would not exceed the County of San Diego operational significance thresholds for VOCs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$.

The potential for a project to result in a cumulatively considerable impact is based on the project's potential to exceed the project-specific daily thresholds. Because maximum construction and operational emissions would not exceed the County of San Diego significance thresholds for VOCs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$, the Project would not result in a cumulatively considerable increase in criteria air pollutants.

Exposure of Sensitive Receptors

Regarding potential carbon monoxide (CO) violations or hotspots, the County of San Diego concluded in its General Plan Update (2011) that there are no intersections within the County that are more congested than the South Coast Air Quality Management District's (SCAQMD) most congested intersections evaluated for CO hotspots in its 2003 CO attainment redesignation request to the United States Environmental Protection Agency (US EPA). As such, the County of San Diego concluded that there were no potential CO violations in the County. The proposed development will not result in traffic that exceeds traffic volumes considered in the County of San Diego General Plan Update analysis and CO concentrations in the project area are well below ambient air quality standards. The Project would not result in a CO hotspot given the above information and continued improvements in vehicle emissions. The impact would be less than significant.

A health risk assessment (HRA) was also conducted to determine the potential impacts of exposure to diesel particulate matter (DPM), which is a TAC, at existing proximate sensitive receptors in the Project vicinity and future onsite receptors. The results of the HRA demonstrate that after implementation of MM-AQ-1, which requires use of Tier 4 equipment during construction, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold, nor a Chronic Hazard Index greater than 1.0. Therefore, impacts to sensitive receptors would be less than significant.

Other Emissions

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the Project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant. The Project would be a mixed-use residential development that would not include land uses with sources that have the potential to generate substantial odors, and impacts associated with odors during operation would be less than significant.

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact but must also be evaluated on a project-level under CEQA. A project contributes to this potential impact through its incremental emissions combined with the cumulative increase of all other sources of greenhouse gas (GHG) emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). GHG emissions are measured in metric tons of CO_2 equivalent (MT CO_2e), which account for weighted global warming potential (GWP) factors for CH_4 and N_2O.

The City adopted a Climate Action Plan (CAP) in 2019, which is a qualified GHG reduction plan under CEQA Guidelines Section 15183.5, and thus, can be used for CEQA streamlining and tiering of project-level analyses. The Project's consistency with the CAP is used to evaluate the potential for the Project to result in GHG emissions that may have a significant impact on the environment and the potential for the Project to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions.

Project Impacts

The project's GHG impacts were evaluated against the City's CAP. To demonstrate that a project would comply with the CAP, requires a two-step process: the first step is a screening-level bright line threshold, which if exceeded, would require the second step, which is a CAP efficiency and CAP measures consistency analysis.

As discussed in Section 3.4 of this report, the Project operational emissions in 2026 plus amortized project construction emissions would be greater than the City's CAP GHG threshold of 900 MT CO_2e per year. As such, the Project is required to complete the CAP Consistency Checklist to ensure that emission targets identified in the City's CAP can be achieved considering the additional emissions. The Project was eligible to use the CAP Consistency Checklist under criteria 4, it's GHG emissions would be less than those generated by land uses allowed under the existing designation. The Project would implement on-site renewable energy through solar photovoltaic (PV) systems for the development, electric vehicle (EV) charging infrastructure, and canopy coverage and permeable surface area that meets requirements outlined in the City's Zoning Ordinance. Accordingly, the Project is deemed consistent with the measurable goals outlined in the City's CAP.

The next step to determine CAP consistency is to estimate the Project's GHG efficiency which is a measure of the project's GHG operational GHG emissions divided by it service population. Construction of the Project would result in GHG emissions primarily associated with the use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The Project would generate operational GHG emissions from area sources (landscape maintenance), energy sources (electricity consumption and natural gas combustion), mobile sources (vehicle trips), water supply and wastewater treatment, and solid waste. Estimated annual Project-generated operational GHG emissions at buildout in 2026 would be approximately 1,193 MT CO_2e per year. Estimated annual Project-generated operational emissions in 2026, plus amortized Project construction emissions would be approximately 1,221 MT CO_2e per year. The total service population was 457 residents resulting in a GHG efficiency metric of 2.69 MT CO2e per service population. This is less than the City's GHG efficiency target of 3.0 MT CO_2e post-2025. The Project meets this criterion and is consistent with the CAP. The Project is consistent with the two-step process for determining consistency with the City's CAP.

Regarding the CARB's 2022 Scoping Plan and AB 1279 (2045 carbon neutrality), the City's CAP would puts it on trajectory for meeting its share of reductions towards 2050, which would align with 2045 targets in concert with CARB measures for carbon capture and storage.

Based on the Project's consistency with the City's CAP, the Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs or generate GHGs that may have a significant impact on the environment. This impact would be **less than significant**.

Mitigation Measures

Mitigation Measure AQ-1

Tier 4 Interim Construction Equipment. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the City of Oceanside (City) that for off-road equipment with engines rated at 300 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim or equivalent (i.e., Tier 4 Final or other diesel particulate filter control that achieves equal or increased PM_{10} exhaust reduction). An exemption from these requirements may be granted by the City if the applicant documents that equipment with the required tier is not reasonably available and equivalent reductions in PM_{10} exhaust emissions are achieved from other construction equipment. The applicant shall be responsible for preparation of a new air quality assessment demonstrating that health risks are below significance thresholds of 10 in a million with the revised equipment mix. Before an exemption may be considered by the City, the applicant shall be required to demonstrate that two

construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment or equivalent could not be located within the San Diego region. The City shall review the exemption request and provide a determination within 10 business days from receipt of the request.

Summary of Findings

Table ES-1. Summary of Impact Determinations

Analysis	Report Section	CEQA Checklist Question	Significance Determinations	
			Unmitigated	Mitigated
Air Quality Management Plan	2.4.1	AQ-1	Less than Significant	No Mitigation Required.
Cumulatively Considerable Net Increase of Any Criteria Pollutant	2.4.2	AQ-2	Less than Significant	No Mitigation Required.
Sensitive Receptors	2.4.3	AQ-3	Less than Significant	Less than Significant with Mitigation.
Other Emissions and Odors	2.4.4	AQ-4	Less than Significant	No Mitigation Required.
GHG Emissions and GHG Reduction Plan	3.4.1	GHG-1 and GHG-2	Less than Significant	No Mitigation Required.

1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with construction and operation of the Oceanside Pacifica Development Project (Project). This analysis uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.) and the emissions-based significance thresholds recommended by the San Diego Air Pollution Control District (SDAPCD) and other applicable thresholds of significance.

1.2 Project Location

The Pacifica Planned Development Plan planning area encompasses approximately 14.5 gross acres. As illustrated in Figure 1. Project Location, the planning area is situated in the northeast portion of the City of Oceanside in the North Valley neighborhood. The planning area is located approximately 0.5 mile from the San Luis Rey Transit Center and 1.5 miles from Highway 76.

1.3 Project Description

The proposed Project consists of a for-sale 164-unit Planned Development Community to be developed on a 14.55-acre site located at the former Pacifica Elementary School site at 4991 Macario Drive (see Figure 2 Site Plan). The neighborhood will consist of three-story attached townhomes oriented towards internal paseos and drives throughout the site. New homes will range in size from a minimum of approximately 1,200 square feet to 1,800 square feet with two (2) to three (3) bedrooms and an attached 2-car garage (either side-by-side or tandem configuration). Each home will include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 53,700 square feet of open space, will be designed with urban-style amenities such as tot lots, an off-leash dog space, pickle ball courts, bocce ball areas, barbecue areas, and space for a variety of outdoor games.

1.4 Project Design Features

The Project would implement construction-related and operational project design features (PDFs) intended to reduce emissions of criteria air pollutants and toxic air contaminants (TACs) as follows:

PDF-AQ-1: Require the installation of only electric or natural gas fireplaces in future residential construction. Future residential units are prohibited from having wood-burning fireplaces or stoves.

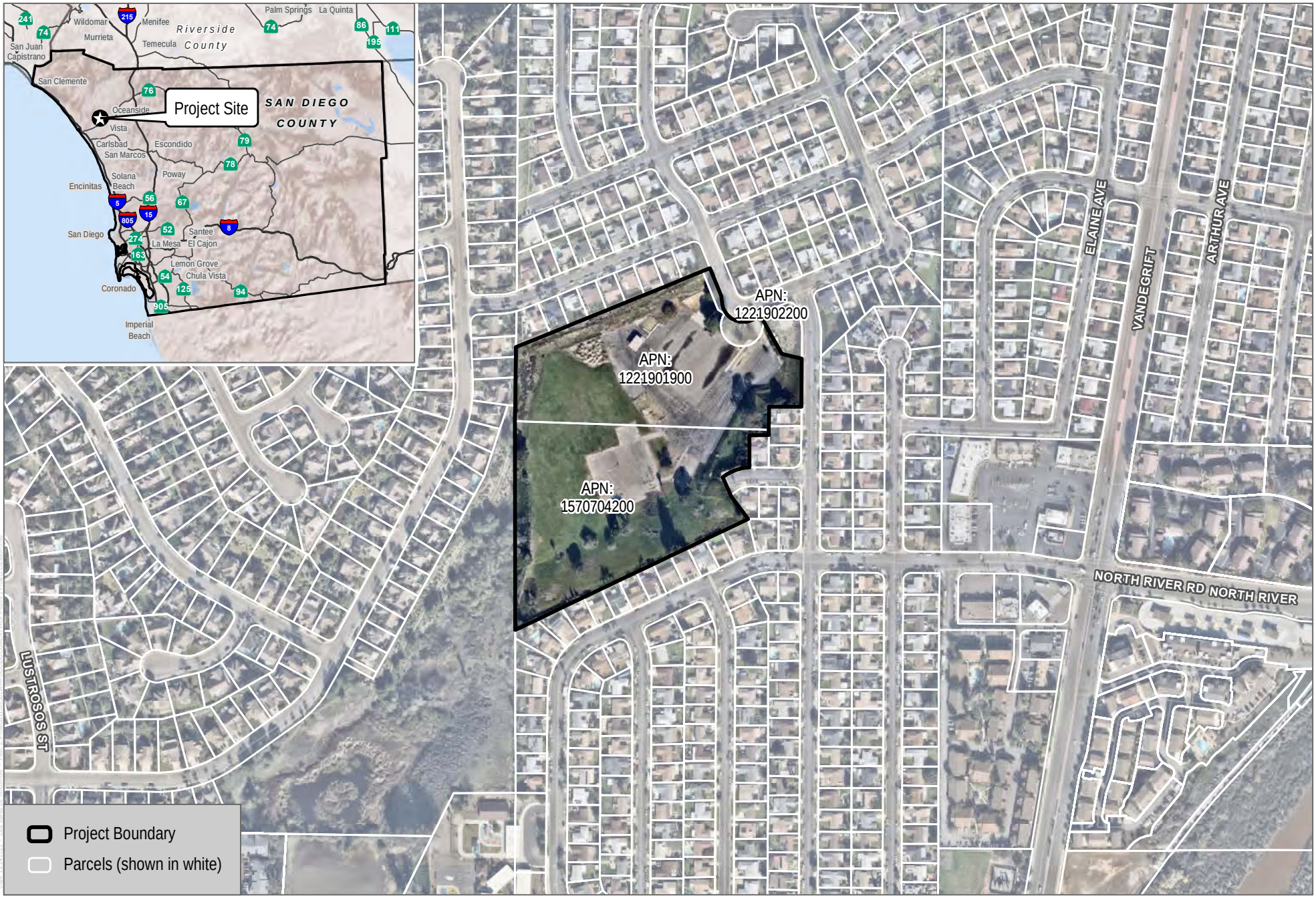
PDF-AQ-2: Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites two times per day, depending on weather conditions. Construction of Project components would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust (PM10 and PM2.5) that may be generated during grading and construction activities.

PDF-AQ-3: The Project will provide temporary electricity to the project site during the building construction phases and prohibit the use of diesel-fueled/natural gas fueled generators during the building construction phases.

PDF-AQ-3: The Project will limit air compressors used during the architectural coating/painting phases to equipment that is electric-powered.

PDF-GHG-1: Photo-voltaic (PV) systems will be installed on each building to meet 50% of forecasted electricity demand.

PDF-AQ-1, PDF-AQ-2, PDF-AQ-3, **PDF-AQ-4**, and **PDF-GHG-1** would be required as City-imposed Conditions of Approval to ensure they are implemented during construction and operation of the proposed Project.



SOURCE: SanGIS 2019

DUDEK

0 200 400 Feet

FIGURE 1

Project Location

Pacifica Elementary Housing Development Project

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SOURCE: SANGIS 2020

DUDEK

0 100 200 Feet

FIGURE 2

Site Plan

Pacifica Elementary Housing Development Project

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2 Air Quality

2.1 Environmental Setting

2.1.1 Climate and Topography

The weather of the San Diego region, as in most of Southern California, is influenced by the Pacific Ocean and its semi-permanent high-pressure systems that result in dry, warm summers and mild, occasionally wet winters. The average temperature ranges (in degrees Fahrenheit) from the mid-40s to the high 90s. Most of the region's precipitation falls from November to April, with infrequent (approximately 10%) precipitation during the summer. The average seasonal precipitation along the coast is approximately 10 inches; the amount increases with elevation as moist air is lifted over the mountains (WRCC 2016).

The topography in the San Diego region varies greatly, from beaches on the west to mountains and desert on the east; along with local meteorology, it influences the dispersal and movement of pollutants in the basin. The mountains to the east prohibit dispersal of pollutants in that direction and help trap them in inversion layers.

The interaction of ocean, land, and the Pacific High-Pressure Zone maintains clear skies for much of the year and influences the direction of prevailing winds (westerly to northwesterly). Local terrain is often the dominant factor inland, and winds in inland mountainous areas tend to blow through the valleys during the day and down the hills and valleys at night.

2.1.2 San Diego Air Basin Climatology

The Project area is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide the State of California. The SDAB is currently classified as a federal nonattainment area for ozone (O_3) and a state nonattainment area for particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and O_3.

The SDAB, which lies in the southwest corner of California and comprises the entire San Diego region, covers 4,260 square miles and is an area of high air pollution potential. The SDAB experiences warm summers, mild winters, infrequent rainfalls, light winds, and moderate humidity. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds.

The SDAB experiences frequent temperature inversions. Subsidence inversions occur during the warmer months as descending air associated with the Pacific High-Pressure Zone meets cool marine air. The boundary between the two layers of air creates a temperature inversion that traps pollutants. The other type of inversion, a radiation inversion, develops on winter nights when air near the ground cools by heat radiation and air aloft remains warm. The shallow inversion layer formed between these two air masses also can trap pollutants. As the pollutants become more concentrated in the atmosphere, photochemical reactions occur that produce O_3, which contributes to the formation of smog. Smog is a combination of smoke and other particulates, O_3, hydrocarbons, oxides of nitrogen (NO_x) and other chemically reactive compounds which, under certain conditions of weather and sunlight, may result in a murky brown haze that causes adverse health effects (CARB 2022a).

Light daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains. During the fall and winter, air quality problems are created due to carbon monoxide (CO) and NO_x emissions. CO concentrations are generally higher in the morning and late evening. In the morning, CO levels are elevated due to cold temperatures and the large number of motor vehicles traveling. Higher CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO is produced almost entirely from automobiles, the highest CO concentrations in the SDAB are associated with heavy traffic. Nitrogen dioxide (NO_2) levels are also generally higher during fall and winter days.

Under certain conditions, atmospheric oscillation results in the offshore transport of air from the Los Angeles region to San Diego County. This often produces high O_3 concentrations, as measured at air pollutant monitoring stations within San Diego County. The transport of air pollutants from Los Angeles to San Diego has also occurred within the stable layer of the elevated subsidence inversion, where high levels of O_3 are transported.

2.1.3 Sensitive Receptors

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion.

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution, as identified by the California Air Resources Board (CARB), include children, older adults, and people with cardiovascular and chronic respiratory diseases. According to the SDAPCD, sensitive receptors are those who are especially susceptible to adverse health effects from exposure to toxic air contaminants, such as children, the elderly, and the ill. Sensitive receptors include residences, schools (grades Kindergarten through 12), libraries, day care centers, nursing homes, retirement homes, health clinics, and hospitals within 2 kilometers of the facility (SDAPCD 2022a). The closest sensitive receptors to the Project site are single-family residences immediately adjacent on the northern and southern boundaries of the site.

2.1.4 Pollutants and Effects

2.1.4.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O_3, NO_2, CO, sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead. These pollutants are discussed in the following paragraphs.[1] In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone (O_3). O_3 is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O_3

[1] The following descriptions of health effects for each of the criteria air pollutants associated with project construction and operations are based on the U.S. Environmental Protection Agency's "Six Common Air Pollutants" (EPA 2017a) and the California Air Resources Board's "Glossary of Air Pollutant Terms" (CARB 2017) published information.

precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O_3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O_3 exists in the upper atmosphere O_3 layer (stratospheric O_3) and at the Earth's surface in the troposphere.[2] The O_3 that the U.S. Environmental Protection Agency (EPA) and the CARB regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O_3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O_3. Stratospheric, or "good," O_3 occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O_3 layer, plant and animal life would be seriously harmed.

O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013).

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in, thereby causing shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies on the effects of O_3 on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2023a).

Nitrogen Dioxide (NO_2). NO_2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O_3. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016a). A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards for NO_2, results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics.

[2] The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher levels of exposure compared to children with lower exposure levels. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2023b).

Carbon Monoxide (CO). CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, such as the Project location, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2023c).

Sulfur Dioxide (SO_2). SO_2 is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO_2 are coal and oil used in power plants and industries; as such, the highest levels of SO_2 are generally found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 parts per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. Older people and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2023d).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter (PM). Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter ($PM_{2.5}$) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. $PM_{2.5}$ results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, $PM_{2.5}$ can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

$PM_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $PM_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM_{10} tends to collect in the upper portion of the respiratory system, $PM_{2.5}$ is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017).

Long-term exposure (months to years) to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2017).

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including IQ performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Volatile Organic Compounds (VOCs). Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry-cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs.

Sulfates. Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO_2 in the atmosphere and can result in respiratory impairment, as well as reduced visibility.

Vinyl Chloride. Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

Hydrogen Sulfide. Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

Visibility-Reducing Particles. Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism. Sources of visibility-reducing particles are the same as for $PM_{2.5}$.

2.1.4.2 Non-Criteria Pollutants

Toxic Air Contaminants (TACs). A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based

on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter (DPM). DPM is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of $PM_{2.5}$ (CARB 2022b). DPM is typically composed of carbon particles ("soot," also called black carbon) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2022b). CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM) as a TAC in August 1998 (17 CCR 93000). DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of $PM_{2.5}$, DPM also contributes to the same non-cancer health effects as $PM_{2.5}$ exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2022b). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as "Valley Fever," is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The fungus is very prevalent in the soils of California's San Joaquin Valley, particularly in Kern County. Kern County is considered a highly endemic county (i.e., more than 20 cases annually of Valley Fever per 100,000 people) based on the incidence rates reported through 2016 (California Department of Public Health 2017). The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, sandy soils.

San Diego County (County) is not considered a highly endemic region for Valley Fever, as the latest report from the County of San Diego Health and Human Services Agency Public Health Services indicated the County has 8.3 cases per 100,000 people (County of San Diego 2019). In the zip code area of the Project site, the case rate is reported as 3.5 cases per 100,000 people (County of San Diego 2021).

2.2 Regulatory Setting

2.2.1 Federal

2.2.1.1 Criteria Pollutants

The federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the CAA, including the setting of National Ambient Air Quality Standards (NAAQS) for major air pollutants, hazardous air pollutant (HAP) standards, approval of state attainment plans, motor vehicle emission standards, stationary source emission standards and permits, acid rain control measures, stratospheric O_3 protection, and enforcement provisions.

NAAQS are established by the EPA for "criteria pollutants" under the CAA, which are O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead. The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The CAA requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan (SIP) that demonstrates how those areas will attain the standards within mandated time frames.

2.2.1.2 Hazardous Air Pollutants

The 1977 CAA Amendments required the EPA to identify national emission standards for hazardous air pollutants to protect the public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for HAPs, 189 substances and chemical families were identified as HAPs.

2.2.2 State

2.2.2.1 Criteria Pollutants

The California Clean Air Act was adopted in 1988 and establishes the state's air quality goals, planning mechanisms, regulatory strategies, and standards of progress. Under the California Clean Air Act, the task of air

quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB is responsible for ensuring implementation of the California Clean Air Act, responding to the federal CAA, and regulating emissions from motor vehicles and consumer products. Pursuant to the authority granted to it, CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS.

The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as primary standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as primary standard
	Annual arithmetic mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as primary standard
	Annual arithmetic mean	12 µg/m³	12.0 µg/m³	15.0 µg/m³
Lead[j, k]	30-day average	1.5 µg/m³	—	—
	Calendar quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016.

Notes: O_3 = ozone; ppm = parts per million by volume; μg/m³ = micrograms per cubic meter; NO_2 = nitrogen dioxide; CO = carbon monoxide; mg/m³= milligrams per cubic meter; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°Celsius (°C) and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 μg/m³ to 12.0 μg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 μg/m³, as was the annual secondary standard of 15 μg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 μg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 μg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Ambient Air Quality Monitoring Data

SDAPCD operates a network of ambient air monitoring stations throughout the County, which measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. SDAPCD monitors air quality conditions at 10 locations throughout the basin. The Camp Pendleton monitoring

station represents the closest monitoring station to the Project site for concentrations for O_3, $PM_{2.5}$, and NO_2. The Escondido monitoring station is the closest monitoring station for CO. The closest monitoring station for SO_2 and PM_{10} is the El Cajon monitoring station. Ambient concentrations of pollutants from 2019 through 2021 are presented in Table 2.

Table 2. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2019	2020	2021	2019	2020	2021
Ozone (O_3)										
Camp Pendleton	ppm	Maximum 1-hour concentration	State	0.09	0.075	0.094	0.074	0	0	0
	ppm	Maximum 8-hour concentration	State	0.070	0.065	0.074	0.059	0	3	0
			Federal	0.070	0.064	0.074	0.059	0	3	0
Nitrogen Dioxide (NO_2)										
Camp Pendleton	ppm	Maximum 1-hour concentration	State	0.18	0.053	0.058	0.059	*0*	*0*	*0*
			Federal	0.100	0.053	0.058	0.059	*0*	*0*	*0*
	ppm	Annual concentration	State	0.030	0.004	0.005	0.005	0	0	0
			Federal	0.053	0.004	0.005	0.005	0	0	0
Carbon Monoxide (CO)										
Escondido-Rancho Carmel Drive	ppm	Maximum 1-hour concentration	State	20	4.1	3.3	3.0	0	0	0
			Federal	35	4.1	3.3	3.0	0	0	0
	ppm	Maximum 8-hour concentration	State	9.0	2.5	1.7	1.8	0	0	0
			Federal	9	2.5	1.7	1.8	0	0	0
Sulfur Dioxide (SO_2)										
El Cajon	ppm	Maximum 1-hour concentration	Federal	0.075	0.001	0.002	0.002	0	0	0
	ppm	Maximum 24-hour concentration	State	0.04	0.000	0.000	0.000	0	0	0
			Federal	0.140	0.000	0.000	0.000	0	0	0
	ppm	Annual concentration	Federal	0.030	0.000	0.000	0.000	0	0	0

Table 2. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2019	2020	2021	2019	2020	2021
Coarse Particulate Matter (PM_{10})[a]										
El Cajon	µg/m³	Maximum 24-hour concentration	State	50	38	55	40	0	0	0
			Federal	150	38	55	40	0	0	0
	µg/m³	Annual concentration	State	20	19.3	23.5	22.0	-	-	-
Fine Particulate Matter ($PM_{2.5}$)[a]										
Camp Pendleton	µg/m³	Maximum 24-hour concentration	Federal	35	13.8	61.1	20.7	0 (0)	0 (0)	0 (0)
	µg/m³	Annual concentration	State	12	—	—	—	—	—	—
			Federal	12.0	—	—	9.5	—	—	—

Sources: CARB 2022c; EPA 2022a.

Notes: ppm = parts per million; — = not available or applicable; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value.

Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (http://www.epa.gov/airdata/) represent the highest concentrations experienced over a given year.

Exceedances of federal and state standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed federal or state standards during the years shown. There is no federal standard for 1-hour O_3, annual PM_{10}, or 24-hour SO_2, nor is there a state 24-hour standard for $PM_{2.5}$.

The Camp Pendleton monitoring station is located at 21441-W B Street, Oceanside, California.

The Escondido monitoring station is located at 600 East Valley Pkwy, Escondido, California.

The El Cajon monitoring station is located at 10537 Floyd Smith Drive, El Cajon, California.

The San Diego – Rancho Carmel Drive monitoring station is located at 11403 Rancho Carmel Drive, San Diego, California.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

SDAB Attainment Designation

Pursuant to the 1990 CAA Amendments, EPA classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as "attainment" for that pollutant. If an area exceeds the standard, the area is classified as "nonattainment" for that pollutant. As previously discussed, these standards are set by EPA or CARB for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable."

The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on the CAAQS rather than the NAAQS.

Table 3 summarizes SDAB's federal and state attainment designations for each of the criteria pollutants.

Table 3. SDAB Attainment Designation

Pollutant	Federal Designation	State Designation
O_3 (8-hour)	**Nonattainment**	**Nonattainment**
O_3 (1-hour)	Attainment[a]	**Nonattainment**
CO	Attainment	Attainment
PM_{10}	Unclassifiable[b]	**Nonattainment**
$PM_{2.5}$	Attainment	**Nonattainment**[c]
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen sulfide	(No federal standard)	Unclassified
Visibility-reducing particles	(No federal standard)	Unclassified
Vinyl chloride	(No federal standard)	No designation

Sources: SDAPCD 2022b
Definitions: attainment = meets the standards; nonattainment = does not meet the standards; unclassified or unclassifiable = insufficient data to classify
Notes: SDAB = San Diego; O_3 = ozone; CO = carbon monoxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxide.

[a] The federal 1-hour standard of 0.12 parts per million (ppm) was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in SIPs.

[b] At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.

[c] CARB has not reclassified the region to attainment yet due to (1) incomplete data, and (2) the use of non-California Approved Samplers (CAS). While data collected does meet the requirements for designation of attainment with federal $PM_{2.5}$ standards, the data completeness requirements for state $PM_{2.5}$ standards substantially exceed federal requirements and mandates, and have historically not been feasible for most air districts to adhere to given local resources. APCD has begun replacing most regional filter-based $PM_{2.5}$ monitors as they reach the end of their useful life with continuous $PM_{2.5}$ air monitors to ensure collected data meets stringent completeness requirements in the future. APCD anticipates these new monitors will be approved as "CAS" monitors once CARB review the list of approved monitors, which has not been updated since 2013.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. The Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) seeks to identify and evaluate risk from air toxics sources; however, AB 2588 does not regulate air toxics emissions. TAC emissions from individual facilities are quantified and prioritized. "High-priority" facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation was anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. All of these regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel powered equipment. Several Airborne Toxic Control Measures that reduce diesel emissions including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any of those persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

2.2.3 Local

2.1.7.1 San Diego Air Pollution Control District

While CARB is responsible for the regulation of mobile emission sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The Project site is located within the SDAB and is subject to the guidelines and regulations of SDAPCD.

In San Diego County, O_3 and particulate matter are the pollutants of main concern, since exceedances of CAAQS for those pollutants are experienced here in most years. For this reason, the SDAB has been designated as a nonattainment area for the state PM_{10}, $PM_{2.5}$, and O_3 standards. The SDAB is also a federal O_3 attainment (maintenance) area for 1997 8-hour O_3 standard, a O_3 nonattainment area for the 2008 8-hour O_3 standard, and a CO maintenance area (western and central part of the SDAB only). The Project area is in the CO maintenance area.

2.1.7.2 Federal Attainment Plans

SDAPCD has prepared the 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (2020 Attainment Plan) that demonstrates how the region will further reduce air pollutant emissions to attain the current NAAQS for ozone. The 2020 Attainment Plan was approved by the SDAPCD on October 14, 2020. On November 19, 2020, CARB adopted the 2020 Attainment Plan for attaining the Federal 8-hour 75 ppb and 70 ppb Ozone standards and projects attainment for the standards by 2026 and 2032, respectively (SDAPCD 2020a). The 2020 Attainment Plan will be submitted to the EPA as a revision to the California State Implementation Plan (SIP) for attaining the ozone NAAQS.

In December 2016, the SDAPCD adopted an update to the Eight-Hour Ozone Attainment Plan for San Diego County (2008 O_3 NAAQS). The 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County indicates that local controls and state programs would allow the region to reach attainment of the federal 8-hour O_3 standard (1997 O_3 NAAQS) by 2018 (SDAPCD 2016b). In this plan, SDAPCD relies on the Regional Air Quality Strategy (RAQS) to demonstrate how the region will comply with the federal O_3 standard. The RAQS details how the region will manage and reduce O_3 precursors (NO_x and VOCs) by identifying measures and regulations intended to reduce these pollutants. The control measures identified in the RAQS generally focus on stationary sources; however, the emissions inventories and projections in the RAQS address all potential sources, including those under the authority of CARB and EPA. Incentive programs for reduction of emissions from heavy-duty diesel vehicles, off-road equipment, and school buses are also established in the RAQS.

Currently, the County is designated as moderate nonattainment for the 2008 O_3 NAAQS and maintenance for the 1997 O_3 NAAQS. As documented in the 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County, the County has a likely chance of obtaining attainment due to the transition to low emission cars, stricter new source review rules, and continuing the requirement of general conformity for military growth and the San Diego International Airport. SDAPCD will also continue emission control measures including ongoing implementation of existing regulations in ozone precursor reduction to stationary and area-wide sources, subsequent inspections of facilities and sources, and the adoption of laws requiring Best Available Retrofit Control Technology for control of emissions (SDAPCD 2016b).

2.1.7.3 State Attainment Plans

SDAPCD and the SANDAG are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated every 3 years. The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O_3. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans (SANDAG 2020, 2021).

On March 9, 2023, SDAPCD adopted the 2022 Regional Air Quality Strategy (RAQS). The RAQS plan demonstrates how the San Diego region will further reduce air pollution emissions to meet state health-based standards for ground-level O_3. The 2022 RAQS guides the SDAPCD in deploying tools, strategies, and resources to continue reducing pollutants that are precursors to ground-level O_3, including NO_x and VOC. The 2022 RAQS emphasizes O_3

control measures but also identifies complementary measures and strategies that can reduce emissions of Greenhouse Gases (GHGs) and PM. It also includes new analyses exploring O_3 and its relationship to public health, mobile sources, under-resourced communities, and GHGs and climate change. Further, the 2022 RAQS identifies strategies to expand SDAPCD regional partnerships, identify more opportunities to engage the public and communities of concern, and integrate environmental justice and equity across all proposed measures and strategies.

In regard to particulate matter emissions reduction efforts, in December 2005, SDAPCD prepared a report titled "Measures to Reduce Particulate Matter in San Diego County" to address implementation of Senate Bill 656 in San Diego County (Senate Bill 656 required additional controls to reduce ambient concentrations of PM10 and PM2.5) (SDAPCD 2005). In the report, SDAPCD evaluated the implementation of source-control measures that would reduce particulate matter emissions associated with residential wood combustion; various construction activities including earthmoving, demolition, and grading; bulk material storage and handling; carryout and trackout removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

2.1.7.4 SDAPCD Rules and Regulations

As stated previously, SDAPCD is responsible for planning, implementing, and enforcing federal and state ambient standards in the SDAB. The following rules and regulations apply to all sources in the jurisdiction of SDAPCD:

- **SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions.** Prohibits any activity causing air contaminant emissions darker than 20% opacity for more than an aggregate of 3 minutes in any consecutive 60-minute time period. In addition, Rule 50 prohibits any diesel pile-driving hammer activity causing air contaminant emissions for a period or periods aggregating more than 4 minutes during the driving of a single pile (SDAPCD 1997).
- **SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance.** Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1976).
- **SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust.** Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site (SDAPCD 2009b).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings.** Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SDAPCD 2015).

2.3 Significance Criteria and Methodology

2.3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether a project would have a significant impact on air quality.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether the project would have a significant impact on air quality. As discussed earlier, the SDAPCD has not developed thresholds of significance for air quality and health risk, however, the SDAPCD has provided emission levels under its permitting authority for new source review for which an AQIA is triggered. The County of San Diego has reviewed SDAPCD's trigger levels, as well as EPA rulemaking, and CEQA thresholds adopted by the SCAQMD to develop SLTs to assist lead agencies in determining the significance of project-level air quality impacts within the County. The City of Oceanside has chosen to apply the County of San Diego SLT's for determining mass daily criteria air pollutant thresholds of significance. Project related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds in Table 4 are exceeded.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that the Project's total emissions would or would not result in a significant impact to air quality.

Table 4. Air Quality Significance Thresholds

Construction Emissions	
Pollutant	**Total Emissions (Pounds per Day)**
Coarse particulate matter (PM_{10})	100
Fine particulate matter ($PM_{2.5}$)	55
Oxides of nitrogen (NO_x)	250
Sulfur oxides (SO_x)	250
Carbon monoxide (CO)	550
Volatile organic compounds (VOCs)	75[a]

Table 4. Air Quality Significance Thresholds

Operational Emissions			
	Total Emissions		
Pollutant	Pounds per Hour	Pounds per Day	Tons per Year
Coarse particulate matter (PM_{10})	—	100	15
Fine particulate matter ($PM_{2.5}$)	—	55	10
Oxides of nitrogen (NO_x)	25	250	40
Sulfur oxides (SO_x)	25	250	40
Carbon monoxide (CO)	100	550	100
Lead and lead compounds	—	3.2	0.6
Volatile organic compounds (VOCs)	—	75*	13.7

Source: SDAPCD 2016a.
Notes: SDAPCD = San Diego Air Pollution Control District.
[a] VOC threshold based on the threshold of significance for VOCs from the South Coast Air Quality Management District (SCAQMD) for the Coachella Valley as stated in the San Diego County Guidelines for Determining Significance.

The thresholds listed in Table 4 represent screening-level thresholds that can be used to evaluate whether Project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed these thresholds, modeling would be required to demonstrate that the Project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels. For non-attainment pollutants, if emissions exceed the thresholds shown in Table 4, the Project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

SDAPCD Rule 51 (Public Nuisance) prohibits emission of any material that causes nuisance to a considerable number of persons or endangers the comfort, health, or safety of any person (SDAPCD 1976). A project that proposes a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

2.3.2 Approach and Methodology

2.3.2.1 Construction Mass Emissions

Emissions from the construction phase of Project components were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1[3]. Per preliminary project details, it is assumed that construction of the Project would begin in January 2024 and would last approximately 21 months. The construction schedule has been developed based on available information provided by the Project applicant, typical construction practices, and CalEEMod default assumptions. Construction phasing is intended to represent a schedule of anticipated activities for use in estimating potential Project-generated construction emissions. Phase 1 of the Project contains demolition, site preparation, grading, utility installation, and paving. Phase 2 of the Project represents the building construction and architectural coating of 80 townhouse units and accompanying landscaping/parking, while

[3] CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects. The model was developed for the California Air Pollution Control Officers Association in collaboration with multiple air districts across the state. Numerous lead agencies in the state, including SDAPCD, use CalEEMod to estimate GHG emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

Phase 3 represents the construction and painting of the remaining 84 units and landscaping/parking. The approximate construction phasing is as follows:

- Demolition (Phase 1): January 2024 to February 2024 (1 month)
- Site Preparation (Phase 1): February 2024 (2 weeks)
- Grading (Phase 1): February 2024 to March 2024 (1 month)
- Utility Installation (Phase 1): April 2024 to May 2024 (1 month)
- Paving (Phase 1): May 2024 to June 2024 (1 month)
- Building Construction (Phase 2): June 2024 to December 2024 (7 months)
- Architectural Coating (Phase 2): December 2024 to January 2025 (1 month)
- Building Construction (Phase 3): January 2025 to August 2025 (8 months)
- Architectural Coating (Phase 3): September 2025 (1 month)

Table 5 provides the construction equipment mix and vehicle trips assumed for estimating Project-generated construction emissions.

Table 5. Construction Scenario Assumptions

Construction Phase (Duration)	Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition (Phase 1)	8	2	124	Concrete/Industrial Saws	1	8
				Excavators	1	8
				Rubber Tired Dozers	1	8
Site Preparation (Phase 1)	8	2	0	Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	2	8
Grading (Phase 1)	16	2	0	Graders	1	8
				Rubber Tired Dozers	1	8
				Scrapers	3	8
				Tractors/Loaders/Backhoes	1	8
Utility Installation (Phase 1)	10	2	0	Excavators	2	8
				Tractors/Loaders/Backhoes	2	8
Paving (Phase 1)	14	2	0	Pavers	1	8
				Paving Equipment	1	8
				Rollers	3	8
Building Construction (Phase 2)	120	18	0	Forklifts	3	8
				Generator Sets - electric	1	8
				Tractors/Loaders/Backhoes	3	8
Architectural Coating (Phase 2)	48	2	0	Air Compressors - electric	3	8
	120	18	0	Forklifts	3	8

Table 5. Construction Scenario Assumptions

Construction Phase (Duration)	Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Building Construction (Phase 3)				Generator Sets - electric	1	8
				Tractors/Loaders/Backhoes	3	8
Architectural Coating (Phase 3)	48	2	0	Air Compressors - electric	3	8

Note: See Appendix A for additional details.

The equipment mix assumptions were based on CalEEMod default assumptions and applicant-provided input based on proposed land use and is meant to represent a reasonably conservative estimate of construction activity. For the analysis, it is generally assumed that heavy construction equipment would be operating at the site for a maximum of 8 hours per day, 5 days per week. In addition, the Project incorporated the use of temporary electric power/electric generators and electric air compressors during the building construction and architectural coating phases, respectively.

Default assumptions provided in CalEEMod were used to determine worker trips and vendor truck trips for each potential construction phase. The default CalEEMod trip distance for construction vehicles was assumed, which was a one-way distance of 12 miles for worker trips, 7.63 miles for vendor truck trips, and 20 miles for haul truck trips.

Implementation of the Project would generate criteria air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Based on project specific information, no net import or export of material is expected during the grading phase. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. Construction of Project components would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust (PM_{10} and $PM_{2.5}$) that may be generated during grading and construction activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites two times per day, depending on weather conditions as indicated by PDF-AQ-2.

Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), haul trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings from a supplier in compliance with the requirements of SDAPCD Rule 67.0.1 for Architectural Coatings.

For additional details see Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

2.3.2.2 Construction Health Risk Analysis

An HRA was performed to assess the impact of construction on sensitive receptors proximate to the Project site and to onsite residents that may occupy the site while the second phase of building construction is completed. This report includes an HRA associated with emissions from construction of the Project based on the methodologies prescribed in the Office of Environmental Health Hazard Assessment (OEHHA) document, Air Toxics Hot Spots Program

Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments (OEHHA Guidelines) (OEHHA 2015). To implement the OEHHA Guidelines based on proposed project information, the SDAPCD has developed a three-tiered approach where each successive tier is progressively more refined, with fewer conservative assumptions. The SDAPCD document, Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (SDAPCD 2022), provides guidance with which to perform HRAs within the SDAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SDAPCD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Additionally, some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The SDAPCD recommends a Chronic Hazard Index significance threshold of one (project increment). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment.

The HRA for the Project evaluated the risk to existing off-site residents from diesel emissions from exhaust from on-site construction equipment and diesel haul and vendor trucks. The HRA also evaluated the risk to potential onsite residents occupying the first phase of buildings while the second phase of construction is completed.

The dispersion modeling of DPM was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SDAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2021). For the Project, AERMOD was run with all sources emitting unit emissions (one gram per second) to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground-level concentrations were determined for construction emissions using AERMOD and the maximum concentrations determined for the one-hour and period-averaging periods. Principal parameters of this modeling are presented in Table 6.

Table 6. AERMOD Principal Parameters

Parameter	Details
Meteorological Data	The latest three-year meteorological data (2019-2021) for the McClellan-Palomar Airport Station were obtained from SDAPCD as the recommended meteorological station and input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. Per the SDAPCD guidelines, the land use procedure from 4.4.1 of the OEHHA Guidance Manual indicated that urban dispersion was appropriate for the project site.
Terrain Characteristics	The elevation of the modeled site is about 92 meters above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD

Table 6. AERMOD Principal Parameters

Parameter	Details
	View in the U.S. Geological Survey's National Elevation Dataset format with a 10-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of DPM from construction equipment was conducted using emissions estimated using CalEEMod, assuming emissions would occur eight hours per day, five days per week. Vendor and hauling trips were modified to account only for emissions occurring within 1,320 ft of the project site. The Project area was modeled as a series of adjacent line-volume sources. The line of adjacent volume sources was assumed to have a release height of 5 meters, a plume height of 10 meters, and a plume width of 10 meters (SCAQMD 2008).
Receptors	The HRA evaluates the risk to existing off-site and future on-site sensitive receptors located in proximity to the Project Site. For the off-site receptors, a uniform fine 1.0 by 1.0-kilometer (0.62- by 0.62-mile) Cartesian grid with 20-meter (66-foot) spacing was centered over the Project Site and converted into discrete receptors to capture the maximum point of impact. For the on-site receptors, discrete receptors were added to the project site to account for residential units in Buildings 2, 9-15, 16, 18, 19, 20, 23, 24 of the site plan.

Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; SDAPCD = San Diego Air Pollution Control District; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model.
See Appendix B for additional information.

Dispersion model plot files from AERMOD were then imported into CARB's Hotspots Analysis and Reporting Program Version 2 (Version 21118) to determine health risk, which requires peak one-hour emission rates and annual emission rates for all pollutants for each modeling source. For the offsite residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 20 months. For the onsite residential risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 8 months. A construction HRA CalEEMod run was performed to estimate on-site emissions of exhaust PM_{10}, which was used as a surrogate for DPM.[4] The predominant source of construction exhaust PM_{10} is operation of off-road diesel construction equipment. However, it was conservatively assumed that emissions from heavy-duty haul and vendor trucks, which could be diesel- or gasoline-fueled, traveling 0.25 miles would occur on site to represent potential on-site travel and nearby local off-site travel. Total exhaust PM_{10} emissions from CalEEMod were averaged over the Project's construction duration to estimate the annual and hourly exposure, which were estimated to be 69.87 pounds per year and 0.03 pounds per hour of DPM for offsite receptors and 9.16 pounds per year and 0.004 pounds per hour of DPM for onsite receptors. Construction emissions for the onsite receptors were adjusted to reflect the use of MERV13 filters pursuant to the Title 24 Building Code (as of the 2019 standards).

2.3.2.3 Operation

Operation of the proposed Project would generate VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from area sources, energy sources and mobile sources, which are discussed below. Emissions from these sources were estimated

[4] Under California regulatory guidelines, DPM is used as a surrogate measure of carcinogen exposure for the mixture of chemicals that make up diesel exhaust as a whole. The California Environmental Protection Agency has concluded that "potential cancer risk from inhalation exposure to whole diesel exhaust will outweigh the multi-pathway cancer risk from the speciated components" (OEHHA 2003).

based on CalEEMod default assumptions for operations of the Project land uses. It was assumed that the project would be fully operational following the completion of construction, which would occur in 2026.

Area

The area source category calculates direct sources of air pollutant emissions located at the Project site, including consumer product use, architectural coatings, and landscape maintenance equipment. CalEEMod defaults were used to estimate emissions from area sources during operation of the Project. The project includes PDF-AQ-1 that prohibits wood-burning, and natural gas-fired fireplaces in residential units.

Consumer products are various solvents used in non-industrial applications which emit VOCs during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential and nonresidential buildings and on the default factor of pounds of VOC per building square foot per day. For parking lot land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day. The CalEEMod default utilization rates and emission factors were assumed.

This VOC emissions associated with the reapplication rate and coating for each building surface type and parking surface was also estimated using CalEEMod. The reapplication rate is the percentage of the total surface area that is repainted each year. A default of 10% is used, meaning that 10% of the surface area is repainted each year (i.e., all surface areas are repainted once every 10 years). Daily emissions divide the annual rate by 365 days per year. It was assumed that the Project would comply with SDAPCD Rule 67.0.1 for Architectural Coatings.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers, as well as air compressors, generators, and pumps. The emissions associated from landscape equipment use were estimated using CalEEMod. The emission factors are multiplied by the number of summer days that represent the number of operational days.

Energy

As represented in CalEEMod, energy sources include emissions associated with natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. CalEEMod default values for energy consumption for each land use were applied for the Project analysis. The energy use from residential land uses is calculated in CalEEMod based on the Residential Appliance Saturation Survey. Energy use from the non-residential land uses is based on various studies and assessments as described in Section 7.3, *Estimating Energy Use from Other Land Uses*, of Appendix A of the CalEEMod User's Guide (CAPCOA 2021).

Mobile Sources (Motor Vehicles)

Following the completion of construction activities, the Project would generate VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources (vehicular traffic) as a result of the 323 additional residential units. The CalEEMod Version 2020.4.0 was used to estimate daily emissions from proposed vehicular sources in combination with trip rates provided in the Local Transportation Study prepared for the Project (CR Associates 2022). CalEEMod default data, including trip characteristics, variable start information, emissions factors, and trip distances, were used for

the model inputs. Emission factors representing the vehicle mix and emissions for 2026 were used to estimate emissions associated with vehicular sources.

For additional details see Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

2.4 Impact Analysis

2.4.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

2.4.1.1 Analysis

As stated in Section 2.2.3, Local, SDAPCD and SANDAG are responsible for developing and implementing the clean air plans for attainment and maintenance of the NAAQS and CAAQS in the SDAB; specifically, the SIP and RAQS.[5] The federal O_3 maintenance plan, which is part of the SIP, was adopted in 2016. The SIP includes a demonstration that current strategies and tactics will maintain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1991 and is updated every 3 years (most recently in 2016). The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O_3. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in San Diego County and the cities in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by San Diego County and the cities in the County as part of the development of their general plans.

If a project proposes development that is greater than that anticipated in the local plan and SANDAG's growth projections, the project might conflict with the SIP and RAQS and may contribute to a potentially significant cumulative impact on air quality.

The City of Oceanside General Plan identifies the site as Civic Institution (CI) and the project site is zoned Civic/ Public (PS). The existing land use designation and zoning allows for few permitted uses, with most uses requiring a use permit. The type of use is focused on public uses, such as hospitals, government offices and schools. The project would include a General Plan Amendment to revise the land use designation from CI to Medium Density Residential-B (MDB-R). A Zone Amendment is also proposed to revise the current zoning from PS to Planned Development (PD), with the Pacifica Planned Development Plan serving as the regulating document. The Pacifica Planned Development Plan would result in the development of 164 multi-family residential units.

One measure of determining development consistency is focused on development intensity and attributes such as vehicle trips and vehicle miles travelled, which directly correlate to increases in criteria air pollutants. Based on the City's development code, the CI designation would allow for greater development intensity based on generation of more vehicle trips and vehicle miles traveled as shown in Table 7, below. As such, the Project would result in less criteria air pollutant emissions, and thus less intensive uses, than development allowed under the existing CI designation.

[5] For the purpose of this discussion, the relevant federal air quality plan is the O_3 maintenance plan (SDAPCD 2016b). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

Table 7. Development Intensity Comparison

Development	Land Use Developed	Residents	Employees	Total Vehicle Trips Per Year	Vehicle Miles Traveled
Proposed Project	164 multi-family residential units	469	0	467,200	4,458,040
Existing General Plan Land Use Designation (CI) and Zoning (PS)	Hospital (100 beds)	0	125	720,823	5,644,989
	Government Office (150)	—	250	883,430	6,918,419
	Highschool (1,000 students)	0	91	572,529	4,483,650

Sources: City of Oceanside General Plan, 2002, City of Oceanside Municipal Code 2022, EIA 2012

Another measure for determining consistency with development is to evaluate whether the population or employment growth is within previous forecasts. As described above, the SIP and RAQS rely on these growth projections to develop control strategies to meet air quality standards.

SANDAG produces a Regional Growth Forecast, which is important for developing regional plans and strategies mandated by federal and state governments such as the Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS), the Program Environmental Impact Report (EIR) for the RTP/SCS, the Air Quality Management Plan, the Federal Transportation Improvement Program, and the Regional Housing Needs Assessment (RHNA). The most recent RTP/SCS was adopted in December 2021 with a planning horizon of 2016 through 2050. The growth forecasts are appended to the RTP/SCS. Appendix F of the 2021 Regional Plan describes the trends in population, housing, and employment. The San Diego region is expected to grow by nearly 437,000 people and the growth in population will add about 440,000 jobs and more than 280,000 housing units (SANDAG 2021).

The forecast process includes two main phases. The first phase of the forecast is produced using California Department of Finance (DOF) population projections and rates developed by SANDAG based on historic economic and demographic trends. The size and makeup of the working age population in the region and high labor force participation is used to project future job growth. The projected higher values in working age population, coupled with older residents staying in the labor force longer results in more jobs in the region by the end of the forecast period. Housing units and households in the region were forecasted based on rates developed from historical data as well as assumptions of housing unit development and household formation in the future. The second phase of the forecast allocates the forecasted growth down to the jurisdictions and smaller geographical areas. The subregional forecast distributes growth based on a variety of factors, including available capacity for housing and accessibility to jobs and transportation. SANDAG works with the region's 18 cities, the County of San Diego, and other agencies that manage land use to understand local land use plans, such as general plans, community plans, and specific plans, as well as constraints to development and already permitted projects to develop the subregional projections for housing and employment. Table 8 shows the population, housing units, and employment projections for the City and the San Diego region for the 2021 Regional Plan.

Table 8. Population, Housing, and Employment

Year	City of Oceanside			San Diego Region		
	Population	Housing Units	Employment	Population	Housing Units	Employment
2016	176,666	65,851	47,256	3,309,510	1,190,555	1,646,419
2025	178,385	67,816	48,317	3,470,848	1,288,216	1,761,747
2035	184,283	71,359	49,909	3,620,348	1,409,866	1,921,475
2050	184,283	71,359	50,756	3,746,073	1,471,299	2,086,318
Change in Number (2016-2050)	7,617 (4.3%)	5,508 (8.4%)	3,500 (7.4%)	436,563 (14.2%)	280,744 (23.6%)	439,899 (26.7%)

Source: SANDAG Regional Plan 2021, Appendix F: Regional Growth Forecast and Sustainable Communities Strategy Land Use Pattern

As shown above the Project is expected to add 469 residents in 164 dwelling units. The added residents would represent approximately 6% of the anticipated population growth and 3% of the housing growth over the RTP/SCS planning horizon. Based on the above information, the increase in population and housing units would be well within the growth projections.

Furthermore, the most recent Regional Housing Needs Assessment from SANDAG stated that Oceanside needs to build 5,443 units from 2021 through 2029 (SANDAG 2020). The City has an allocation of 1,268 very-low, 718 low income units, 883 moderate and 2,574 above-moderate income units (SANDAG 2020). The Project is expected to bring 164 market-rate dwelling units to market in 2026, which would be within SANDAG's growth projection for housing during the 6th Cycle planning horizon (i.e., April 2021 – April 2029). Therefore, the Project would not conflict with SANDAG's regional growth forecast for the City.

2.4.1.2 Conclusion

The increase in the housing units and associated vehicle source emissions is not anticipated to result in air quality impacts that were not envisioned in the growth projections and RAQS, and the increase in residential units in the region would not obstruct or impede implementation of local air quality plans. Based on the analysis above, implementation of the Project would not result in development in excess of that anticipated in local plans or increases in population/housing growth beyond those contemplated by SANDAG. As such, vehicle trip generation and planned development for the Project are considered to be anticipated in the SIP and RAQS. Because the proposed land uses and associated vehicle trips are anticipated in local air quality plans, the Project would be consistent at a regional level with the underlying growth forecasts in the RAQS. Impacts would be **less than significant**.

2.4.2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SDAPCD develops and implements plans for future attainment of the NAAQS and CAAQS. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether the Project's individual emissions would have a cumulatively significant impact on air quality.

2.4.2.1 Construction

Construction of the proposed Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (vendor and haul truck trips, and worker vehicle trips). Construction emissions can vary substantially day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions.

Criteria air pollutant emissions associated with construction activities were quantified using CalEEMod. Default values provided by the program were used where detailed Project information was not available. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.3.2. above.

Development of the Project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, asphalt pavement application, and architectural coatings. As described previously, fugitive dust would be limited through compliance with SDAPCD Rule 55, which requires the restriction of visible emissions of fugitive dust beyond the property line. This measure is incorporated into the project PDF-AQ-2.

Table 9 shows the estimated maximum unmitigated daily construction emissions associated with the construction phases of the Project. Complete details of the emissions calculations are provided in Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

Table 9. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Construction Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
2024	29.4	39.8	33.1	0.08	16.3	5.61
2025	29.3	3.70	10.2	0.01	1.25	0.38
Maximum	**29.4**	**39.8**	**33.1**	**0.08**	**16.3**	**5.61**
County of San Diego threshold	*75*	*250*	*550*	*250*	*100*	*55*
Threshold exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SDAPCD = San Diego Air Pollution Control District.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod and include fugitive dust mitigation (SDAPCD Rule 55)

As shown in Table 10, daily construction emissions for the Project would not exceed the County of San Diego's significance thresholds. Therefore, the Project would have a **less than significant impact** related to emissions of criteria air pollutant emissions during construction.

2.4.2.2 Operations

Operation of the proposed Project would generate VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources (vehicle trips), area sources (consumer products, landscape maintenance equipment), and energy sources. Criteria air pollutant emissions associated with long-term operations were quantified using CalEEMod. Project-generated mobile source emissions were estimated in CalEEMod based on project-specific trip rates. CalEEMod default values were used to estimate emissions from the Project area and energy sources. The project includes a PDF that prohibits all fireplaces. As such, CalEEMod area source emissions were adjusted to show no fireplaces used in residential development.

Table 10 presents the unmitigated maximum daily emissions associated with the operation of the Project in 2026 after all phases of construction have been completed. Complete details of the emissions calculations are provided in Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*. Emissions represent maximum of summer and winter. "Summer" emissions are representative of the conditions that may occur during the O_3 season (May 1 to October 31), and "winter" emissions are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 10. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Mobile	2.64	2.13	20.3	0.05	1.72	0.33
Area	9.26	2.88	47.2	0.14	5.46	5.27
Energy	0.05	0.85	0.36	0.01	0.07	0.07
Total	**11.95**	**5.86**	**67.86**	**0.2**	**7.25**	**5.67**
SDAPCD threshold	*75*	*250*	*550*	*250*	*100*	*55*
Threshold exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod.

As shown in Table 10, daily operational emissions for the Project would not exceed SDAPCD's significance thresholds for any criteria air pollutant. Therefore, the Project would result in a **less than significant impact** related to emissions of criteria air pollutant emissions during operation.

2.4.2.3 Conclusion

In analyzing cumulative impacts from a project, the analysis must specifically evaluate the project's contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS. If the project does not exceed thresholds and is determined to have less than significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the project components, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, the project would only be considered to have a significant cumulative impact if its contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a "cumulatively considerable contribution" to the cumulative air quality impact).

Additionally, for the SDAB, the RAQS serves as the long-term regional air quality planning document for the purpose of assessing cumulative operational emissions within the basin to ensure the SDAB continues to make progress toward NAAQS and CAAQS attainment status. As such, cumulative projects located in the San Diego region would have the potential to result in a cumulative impact to air quality if, in combination, they would conflict with or obstruct implementation of the RAQS. Similarly, individual projects that are inconsistent with the regional planning documents on which the RAQS is based would have the potential to result in cumulative impacts if they represent development beyond regional projections.

The SDAB has been designated as a federal nonattainment area for O_3 and a state nonattainment area for O_3, PM_{10}, and $PM_{2.5}$. PM_{10} and $PM_{2.5}$ emissions associated with construction generally result in near-field impacts. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. As shown in Tables 10, the emissions of all criteria pollutants from the Project's construction would be below the significance levels. Construction would be short term, temporary in nature, and activities would be considered typical of a residential project. Once construction is completed, construction-related emissions would cease. As shown in Table 11, operational emissions generated by the Project would not result in

emissions that exceed significance thresholds for any criteria air pollutant. As such, the Project would result in less than significant impacts to air quality.

Regarding long-term cumulative operational emissions in relation to consistency with local air quality plans, the SIP and RAQS serve as the primary air quality planning documents for the state and SDAB, respectively. The SIP and RAQS rely on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the County as part of the development of their general plans. Therefore, projects that propose development that is consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS and would not be considered to result in cumulatively considerable impacts from operational emissions. As discussed in Section 2.4.1 of this report, the Project is consistent with the SANDAG growth projections. Thus, it would be consistent at a regional level with the underlying growth forecasts in the SIP and RAQS.

As a result, the Project would not result in a cumulatively considerable contribution to regional O_3 concentrations or other criteria pollutant emissions. Cumulative impacts for construction and operation would be **less than significant** for the Project.

2.4.3 Would the Project expose sensitive receptors to substantial pollutant concentrations?

2.4.3.1 Carbon Monoxide Hotspots

Mobile-source impacts occur on two basic scales of motion. Regionally, Project-related travel will add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SDAB. Locally, Project traffic will be added to the City's roadway system. If such traffic occurs during periods of poor atmospheric ventilation, consists of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds, and operates on roadways already crowded with non-Project traffic, there is a potential for the formation of microscale CO "hotspots" in the area immediately around points of congested traffic. Because of continued improvement in mobile emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the basin is steadily decreasing.

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. To verify that the Project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted. The City does not have guidance regarding CO hotspots; as such, the County's CO hotspot screening guidance (County of San Diego 2007) was followed to determine whether the Project would require a site-specific hotspot analysis. Per guidance, any project that would place receptors within 500 feet of a signalized intersection operating at or below LOS E (peak-hour trips exceeding 3,000 trips) must conduct a "hotspot" analysis for CO. Likewise, projects that will cause road intersections to operate at or below a LOS E (i.e., with intersection peak-hour trips exceeding 3,000) will also have to conduct a CO "hotspot" analysis. The signalized intersection nearest to the project is located at Monica Cir.=cle/Project Drivewa. & Macario Drive. Per the Local Transportation Study prepared for the Project, once the project is constructed, the intersection will be operating at LOS A with Project traffic (Chen Ryan Associates 2022). The intersection of Vandegrift Blvd./ N River Rd. & N Redondo Dr., which is approximately 1,850 feet southeast of the project site, will be operating at LOS E in the AM Peak Hour and LOS F in the PM Peak Hour under both the 2025 and 2050 with Project Conditions. Although this intersection will be operating at LOS E and higher, a CO hotspots would not be expected for the following reasons.

Ambient CO levels are monitored at the Escondido-Rancho Carmel Drive air quality monitoring station, which is approximately 16 miles southeast of the Project Site. Ambient CO levels monitored at this monitoring station are representative of ambient CO concentrations in the Project area and indicate that the highest recorded 1-hour concentration of CO is 4.1 ppm (the State standard is 20 ppm) and highest 8-hour concentration is 2.5 ppm (the State standard is 9 ppm) during the past 3 years of available data (EPA 2022). As discussed above, the highest CO concentrations typically occur during peak traffic hours, so CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Since the last update of the SDAPCD's guidance (2007), the County has evaluated the potential for the growth anticipated under the General Plan Update to result in CO "hot spots" throughout the County (County of San Diego 2009). To do this, the County reviewed the CO "hot spot" analysis conducted by the South Coast Air Quality Management District (SCAQMD) for their request to the USEPA for redesignation as a CO attainment area (SCAQMD 2003). In SCAQMD's analysis, they modeled the four most congested intersections identified in their basin (South Coast Air Basin [SCAB]), which included the following:

- Long Beach Boulevard and Imperial Highway – proximity to the Lynwood monitoring station, which consistently records the highest 8-hour CO concentrations in the SCAB each year.
- Wilshire Boulevard and Veteran Avenue – the most congested intersection in Los Angeles County, with an average daily traffic volume of 100,000 vehicles/day.
- Highland Avenue and Sunset Boulevard – one of the most congested intersections in the City of Los Angeles.
- Century Boulevard and La Cienega Boulevard – one of the most congested intersections in the City of Los Angeles.

The SCAQMD's analysis found that these intersections had an average 7.7 ppm 1-hour CO concentrations predicted by the models, which is only 38.5% of the 1-hour CO CAAQS of 20 ppm. Therefore, even the most congested intersections in SCAQMD's air basin would not experience a CO "hot spot".

The air quality monitoring station closest to the most congested intersection in Los Angeles County (Wilshire Boulevard/Veteran Avenue) is the VA Hospital, West Los Angeles Station (Site ID 060370113) located at Wilshire Boulevard and Sawtelle Boulevard, approximately 0.5 miles to the southwest. Ambient CO levels monitored at this representative monitoring station are outlined in Table 11 for the original analysis year (2002), and for the most recent year of available data (2021). As shown, there is noticeable improvement in background levels of CO since the SCAQMD's regional hotspot analysis.

Table 11. Ambient Carbon Monoxide Concentrations for SCAQMD's Most Congested Intersection

Year	CO Concentration (ppm)	
	Maximum 1-hour	Maximum 8-hour
2002	4.3	2.7
2021	1.5	1.0

Source: EPA 2022

For the County of San Diego, there are no roadways/segments identified as deficient facilities under the worst-case traffic scenario that have an ADT greater than the 100,000 that was anticipated for the most congested intersection analyzed by SCAQMD. The most congested intersection in the County is Campo Road/SR-94 between Jamacha Boulevard and Jamacha Road in Valle De Oro. According to Table 5.23 of the Traffic and Circulation Assessment: County of San Diego General Plan Update (Wilson and Company 2009), this intersection has an ADT of 79,200, which is only 79% of the most congested intersection in the SCAB.

Regional access to the Project would be from Interstate 15 (I-15), which is located approximately two miles west of the Project site. From I-15, main access to the Project Site would be provided by State Route 76 (SR 76), which is a two-lane state highway that runs east/west from the City of Oceanside to SR-79/Lake Henshaw. The County of San Diego's General Plan Update Traffic and Circulation Assessment indicates that the segment from Old Hwy 395 to the I-15 southbound ramps on SR-76 has an ADT of 39,600, which is approximately 40% of the most congested intersection in the SCAB (Wilson and Company 2009). The additional trips anticipated with implementation of the Project (15,204 ADT) could increase ADT at this intersection to 54,804, which is still below the County's most congested intersection. This scenario assumes that each new daily trip generated by the Project would travel through the Old Hwy 395/I-15 southbound ramps segment, which is unrealistic but provides an absolute worst-case scenario for conservative analysis. Even with this conservative assumption, project-generated trips would only represent 55% of the most congested intersection in the SCAB, which were determined to not experience a CO "hot spot" according to SCAQMD's 2003 analysis.

In addition, the CO "hot spot" analysis performed by the SCAQMD included emissions for 1997 and 2002. Both running exhaust emission factors and idling emission factors predicted by the EMFAC model decreased from 1997 through 2002 as outlined in Table 12 below. This decrease in CO emission factors is indicative of a phase-out of older vehicles and increasingly strict emissions standards implemented by CARB. Emission factors for San Diego County from the EMFAC2007 Model, which were used in the General Plan Update analysis, indicated that running exhaust emissions of CO would be less than 6.708 g CO per mile in 2010. Continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion means that the potential for CO hotspots in the SDAB is likely to decrease.

Table 12. Carbon Monoxide Emission Factors Predicted by the EMFAC Model

	CO Emission Factors (grams CO/mile)	
Year	Running Exhaust	Idling Exhaust
1997	13.13	2.43
2002	7.98	1.30

Source: South Coast Air Quality Management District 2003

The County of San Diego concluded in the General Plan Update (2011) that because the most congested intersections in San Diego are less congested than those from the SCAB, and because emissions of CO would be lower than those used in the SCAQMD analysis, CO concentrations would be lower within San Diego County, and no CO "hot spots" are anticipated as was concluded in the SCAQMD analysis.

Given that proposed development will not result in traffic that exceeds traffic volumes considered in the General Plan Update analysis, coupled with the considerably low level of CO concentrations in the project area, and continued improvements in vehicle emissions, the Project is not anticipated to result in CO "hot spots". Consequently, implementation of the Project would not result in CO concentrations in excess of the health protective

CAAQS or NAAQS, and as such, would not expose sensitive receptors to significant pollutant concentrations or health effects. Therefore, impacts related to sensitive receptor exposure to substantial CO concentrations would be less than significant, and no mitigation measures are required.

2.4.3.2 Toxic Air Contaminants

In addition to impacts from criteria pollutants, Project impacts may include emissions of pollutants identified by the state and federal government as TACs or HAPs. The greatest potential for TAC emissions during construction would be DPM emissions from heavy equipment operations and heavy-duty trucks, and the associated health impacts to sensitive receptors. Construction of the Project would occur over a period of 20 months and following completion of construction activities, Project-related TAC emissions would cease. The closest sensitive receptors to the Project site are single-family residences immediately adjacent on the northern and southern boundaries of the site. As such, a construction health risk analysis was performed for the Project as discussed below.

Based on results from the HRA, the maximally exposed individual resident offsite would be located at the single-family residences to the northeast of the Project site. Once the first phase of building construction is complete, onsite residents would be exposed to TAC emissions during the second phase of building construction. Notably, Title 24 requires the use of enhanced filtration through installation of HVAC systems with a minimum of MERV13 filtration. MERV13 filters can reduce particulate emissions by almost 70% (adjusting for time spent indoors). Table 13 summarizes the results of the HRA for Project construction, and detailed results are provided in Appendix B, *Health Risk Assessment Output Files*.

Table 13. Construction Activity Health Risk Assessment Results Prior to Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite				
Cancer Risk	Per Million	18.12	10.0	**Potentially Significant**
HIC	Not Applicable	0.01	1.0	Less than Significant
Onsite				
Cancer Risk	Per Million	2.57	10.0	Less than Significant
HIC	Not Applicable	<0.01	1.0	Less than Significant

Source: Appendix B
Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1 for offsite receptors. Onsite receptors would be exposed to fewer TAC emissions from construction and a shorter duration of exposure. The cancer risk is less than the 10 in 1 million threshold and the Chronic Hazard Index is less than 1 for onsite receptors. Therefore, TAC emissions from construction of the Project would result in a **potentially significant** impact to offsite receptors and thus mitigation is required. Onsite receptors would have a less than significant impact.

Table 14. Construction Activity Health Risk Assessment Results With Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite				
Cancer Risk	Per Million	9.06	10.0	Less than Significant
HIC	Not Applicable	<0.01	1.0	Less than Significant
Onsite				
Cancer Risk	Per Million	2.57	10.0	Less than Significant
HIC	Not Applicable	<0.01	1.0	Less than Significant

Source: Appendix B
Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the HRA as shown in Table 14 demonstrate that the TAC exposure from construction diesel exhaust emissions after implementation of mitigation would not result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1. Therefore, TAC emissions from construction of the Project would result in a **less than significant impact with mitigation**.

2.4.3.3 Health Effects of Criteria Air Pollutants

Construction and operation of the Project would not result in emissions that exceed SDAPCD's emission thresholds for any criteria air pollutants. The SDAPCD thresholds are based on the SDAB complying with the NAAQS and CAAQS which are protective of public health; therefore, no adverse effects to human health would result from the Project. The following provides a general discussion of criteria air pollutants and their health effects.

Regarding VOCs, some VOCs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings and asphalt off-gassing, the emissions of which would not result in exceedances of County of San Diego thresholds. Generally, the VOCs in architectural coatings and asphalt are of relatively low toxicity. Additionally, SDAPCD Rule 67.0.1 restricts the VOC content of coatings for both construction and operational applications.

In addition, VOCs and NO_x are precursors to O_3, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS (the SDAB is designated by EPA as an attainment area for the 1-hour O_3 NAAQS standard and 1997 8-hour NAAQS standard). The health effects associated with O_3, as discussed in Section 2.1.4, Criteria Air Pollutants, are generally associated with reduced lung function. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SDAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O_3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, the VOC and NO_x emissions associated with Project construction could minimally contribute to regional O_3 concentrations and the associated health impacts. Due to the minimal contribution during construction and operation, as well as the existing good air quality in coastal San Diego areas, health impacts would be considered less than significant.

Regarding NO_2, which is a constituent of NO_x, construction of the Project would not contribute to exceedances of the NAAQS and CAAQS for NO_2 since NO_x emissions would be less than the applicable SDAPCD threshold. As described in Section 3.1, NO_2 health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, these operations would be relatively short term, and the off-road construction equipment would be operating on various portions of the site and would not be concentrated in one portion of the site at any one time. Construction of the Project would not require any stationary emission sources that would create substantial, localized NO_2 impacts.

Similar to O_3, construction of the Project would not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. Due to the minimal contribution of particulate matter during construction and operation, health impacts would be considered less than significant.

Based on the preceding considerations, health impacts from Project-related criteria air pollutant emissions would be considered **less than significant**.

2.4.3.4 Conclusion

The results of the HRA demonstrate that after implementation of **MM-AQ-1**, which requires use of Tier 4 equipment during construction, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold, nor a Chronic Hazard Index greater than 1.0. VOC and NO_x emissions, as described previously, would minimally contribute to regional O_3 concentrations and the associated health effects. In addition to O_3, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO_2. As shown in Table 2, the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Thus, it is not expected the Project's operational NO_x emissions would result in exceedances of the NO_2 standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO "hotspots" were discussed previously as a less than significant impact. Thus, the Project's CO emissions would not contribute to significant health effects associated with this pollutant. PM_{10} and $PM_{2.5}$ would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter and would not obstruct the SDAB from coming into attainment for these pollutants and would not contribute to significant health effects associated with particulates. Therefore, overall health impacts associated with criteria air pollutants would be considered **less than significant**.

2.4.4 Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

2.4.4.1 Construction

Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the Project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and architectural coatings. Such odors are temporary and for the types of construction activities anticipated for Project components, would generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered **less than significant**.

2.4.4.2 Operational

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, there are no quantitative or formulaic methodologies to determine if potential odors would have a significant impact. Examples of land uses and industrial operations that are commonly associated with odor complaints include agricultural uses, wastewater treatment plants, food processing facilities, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding facilities. In addition to the odor source, the distance between the sensitive receptor(s) and the odor source, as well as the local meteorological conditions, are considerations in the potential for a project to frequently expose the public to objectionable odors. Although localized air quality impacts are focused on potential impacts to sensitive receptors, such as residences and schools, other land uses where people may congregate (e.g., workplaces) or uses with the intent to attract people (e.g., restaurants and visitor-serving accommodations) should also be considered in the evaluation of potential odor nuisance impacts. The Project would include a mixed-use residential development, which is not expected to produce any nuisance odors; therefore, impacts related to odors caused by the Project would be **less than significant**.

3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2022b).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth; the Earth emits a portion of this energy in the form of long-wave radiation; and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes, such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-20th century and is the most significant driver of observed climate change (IPCC 2014; EPA 2022b). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2014). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2014). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.1.5, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases and other Climate Forcing Substances

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. GHGs include, but are not limited to, carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), ozone (O_3), water vapor, hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).[6] Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted to the

[6] California Health and Safety Code 38505 identifies seven GHGs that CARB is responsible to monitor and regulate to reduce emissions: CO_2, CH_4, N_2O, SF_6, HFCs, PFCs, and NF_3.

atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, HCFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. A summary of the most common GHGs and their sources is included in the following text.[7] Also included is a discussion of other climate forcing substances.

Carbon Dioxide (CO_2). CO_2 is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane (CH_4). CH_4 is produced through both natural and human activities. CH_4 is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide (N_2O). N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N_2O as a propellant (such as in rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF_3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[7] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's Glossary of Air Pollution Terms (2015), and EPA's Glossary of Climate Change Terms (2016).

Chlorofluorocarbons (CFCs). CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons (HCFCs). HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. Diesel particulate matter emissions are a major source of black carbon and are toxic air contaminates (TACs) that have been regulated and controlled in California for several decades to protect public health. In relation to declining diesel particulate matter from the California Air Resources Board's (CARB's) regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone (O_3). Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2022b). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of

a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons CO_2 equivalent (MT CO_2e).

The current version of the CalEEMod (version 2020.4.0) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the Project.

3.1.4 Sources of Greenhouse Gas Emissions

Global Inventory

Anthropogenic GHG emissions worldwide in 2020 (the most recent year for which data is available) totaled approximately 49,800 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2022). The top six GHG emitters include China, the United States, the Russian Federation, India, Japan, and the European Union, which accounted for approximately 60% of the total global emissions, or approximately 30,270 MMT CO_2e (PBL 2018). Table 15 presents the top GHG-emissions-producing countries.

Table 15. Six Top GHG Producer Countries

Emitting Countries	2020 GHG Emissions (MMT CO_2e)[a,b]
China	14,300
United States	5,640
European Union	3,440
India	3,520
Russian Federation	2,210
Japan	1,160
Total	**30,270**

Source: PBL 2022.
Notes: MMT CO_2e = million metric tons of carbon dioxide equivalent.
[a] Column may not add due to rounding.
[b] GHG emissions do not include land use change and forestry-related GHG emissions.

National Inventory

Per the EPA Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990 to 2020 (EPA 2022), total United States GHG emissions were approximately 5,981.4 MMT CO_2e in 2020 (EPA 2022). The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 94.7% of total GHG emissions (4,715 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 87.2% of CO_2 emissions in 2020 (4,342.7 MMT CO_2e). Total U.S. emissions have decreased by 7.3% from 1990 to 2020, down from a high of 15.7% above 1990 levels in 2007. Emissions decreased from 2019 to 2020 by 9.0% (590.4 MMT CO_2e.). Net emissions (i.e., including sinks) were 5,222.4 MMT CO_2e in 2020. Overall, net emissions decreased 10.6% percent from 2019 to 2020 and decreased 21.4 percent from 2005 levels. The sharp decline in emissions from 2019 to 2020 is largely due to the impacts of the coronavirus (COVID-19) pandemic on travel and economic activity; however, the decline also reflects the combined impacts of long-term trends in many factors, including population, economic growth, energy markets, technological changes including energy efficiency, and the carbon intensity of energy fuel choices. Between 2019 and 2020, the decrease in total GHG emissions was driven largely by a 10.5% decrease in CO_2 emissions from fossil fuel combustion, including a 13.3%

decrease in transportation sector emissions from less travel due to the COVID-19 pandemic and a 10.4% decrease in the electric power sector. The decrease in electric power sector emissions was due to a decrease in electricity demand of 2.5% since 2019 and also reflects the continued shift from coal to less carbon intensive natural gas and renewables (EPA 2022).

State Inventory

According to California's 2000–2020 GHG emissions inventory (2022 edition), California emitted approximately 369.2 MMT CO_2e in 2020, including emissions resulting from out-of-state electrical generation (CARB 2022d). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high-GWP substances, and recycling and waste. Table 16 presents California GHG emission source categories and their relative contributions to the emissions inventory in 2020.

Between 2000 and 2019, per-capita GHG emissions in California have dropped from a peak of 14.0 MT per person in 2001 to 10.5 MT per person in 2019, representing an approximate 25% decrease. In addition, total GHG emissions in 2019 were approximately 7 MMT CO_2e lower than 2018 emissions (CARB 2022d).

Table 16. GHG Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total*
Transportation	136.60	37%
Industrial uses	73.84	20%
Electricity generation[a]	59.07	16%
Residential and commercial uses	36.92	10%
Agriculture and Forestry	33.22	9%
High GWP substances	22.15	6%
Recycling and waste	7.38	2%
Totals	**369.2**	**100%**

Source: CARB 2022b.
Notes: GHG = greenhouse gas; GWP = global warming potential; MMT CO_2e = million metric tons of carbon dioxide equivalent. Emissions reflect 2020 California GHG inventory.
Totals may not sum due to rounding.
[a] Includes emissions associated with imported electricity, which account for 18.46 MMT CO_2e.

Per capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT per person to 9.3 MT per person in 2020, a 33% decrease. In 2016, statewide GHG emissions dropped below the 2020 GHG Limit of 431 MMT CO_2e and have remained below the Limit since that time (CARB 2022a).

Local Inventories

According to the GHG inventory data compiled by the Energy Policy Initiative Center, in 2012, the County (as defined to include all cities therein and unincorporated County areas) emitted 34.7 MMT CO_2e (EPIC 2015).

The 2013 emissions inventory for the City is shown in Table 17 below.

Table 17. City of Oceanside GHG Emissions by Sectors for 2013

Source Category	Annual GHG Emissions ($MT CO_2e$)	Percent of Total
Transportation	477,178	48.5
Electricity	251,524	25.6
Natural Gas	162,447	16.5
Solid Waste	40,615	4.1
Water[1]	27,420	2.8
Municipal Operations	24,828	2.5
Total	**984,012**	**100**

Source: City of Oceanside 2019.
Notes: GHG emissions for each category are rounded. Sums may not add up to totals due to rounding.
[1] Emissions associated with water and wastewater treatment at City-operated facilities were accounted for as Municipal emissions. Water emissions include upstream emissions from import of water to the City.

3.1.5 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 IPCC Synthesis Report indicated that warming of the climate system is unequivocal and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, and rising sea levels (IPCC 2014).

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, frequency of severe weather events, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed global mean surface temperature for the decade 2006–2015 was 0.87°C (1.6°F) (likely between 0.75°C [1.4°F] and 0.99°C [1.8°F]) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed, including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers, and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the

Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has followed an increasing trend overall.

- CNRA has released four California Climate Change Assessments (in 2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments' need for information to support action in their communities, the Fourth Assessment (CNRA 2018) includes reports for nine regions of the state. Key highlights for the San Diego Region (include the following (CNRA 2018):Temperature is projected to increase substantially, along with mean temperature, heat wave frequency will increase, with more intensity and longer duration.
- Precipitation will remain highly variable but will change in character, with wetter winters, drier springs, and more frequent and severe droughts punctuated by more intense individual precipitation events.
- Wildfire risk will increase in the future as climate warms. The risk for large catastrophic wildfires driven by Santa Ana wind events will also likely increase as a result of a drier autumns leading to low antecedent precipitation before the height of the Santa Ana wind season.
- The sea level along San Diego County is expected to rise. High tides combined with elevated shoreline water levels produced by locally and distantly driven wind-driven waves will drive extreme events. Longer-term sea level will increase rapidly in the second half of the century and will be punctuated by short periods of storm-driven extreme sea levels that will imperil existing infrastructure, structures, and ecosystems with increasing frequency.

3.2 Regulatory Setting

3.2.1 Federal

Massachusetts v. EPA. In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a

reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal Clean Air Act:

- The Administrator found that elevated concentrations of GHGs—CO2, CH4, N2O, HFCs, PFCs, and SF6—in the atmosphere threaten the public health and welfare of current and future generations. This is the "endangerment finding."
- The Administrator further found the combined emissions of GHGs—CO2, CH4, N2O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act. The Energy Independence and Security Act of 2007 (December 2007), among other key measures, would do the following, which would aid in the reduction of national GHG emissions:

1. Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel by 2022.
2. Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
3. Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

Federal Vehicle Standards. In response to a U.S. Supreme Court ruling, the Bush Administration issued Executive Order (EO) 13432 in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Barack Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 by model year 2025 on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks (EPA 2022c).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018 (76 FR 57106–57513). The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA,

this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6%–23% over the 2010 baselines.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

In August 2018, the EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards in place at the time, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2%–3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of 1°C by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures, and have committed to cooperating with other countries to implement global climate change initiatives.

In 2019, the EPA and NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued which set CO2 emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. In response to EO 13990, on December 21, 2021, NHTSA finalized the CAFE Preemption rulemaking to withdraw its portions of the Part One Rule. The final rule concluded that the Part One Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests.

Then, in March 2022, NHTSA established new fuel economy standards that would require an industry-wide fleet average of approximately 49 miles per gallon for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8% annually for model years 2024 and 2025, and 10% annually for model year 2026.

Inflation Reduction Act of 2022. The Inflation Reduction Act was signed into law by President Biden in August 2022. The bill includes specific investment in energy and climate reform and is projected to reduce GHG emissions within the U.S. by 40% as compared to 2005 levels by 2030. The bill allocates funds to boost renewable energy infrastructure (e.g., solar panels and wind turbines), includes tax credits for the purchase of electric vehicles, and includes measures that will make homes more energy efficient.

3.2.2 State

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes executive orders (EO), legislation [assembly bills (AB) and senate bills (SB)], regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

The state has taken a number of actions to address climate change. These include executive orders, legislation, and CARB plans and requirements. These are summarized below.

EO S-3-05. EO S-3-05 (June 2005) established the following statewide goals: GHG emissions should be reduced to 2000 levels by 2010, GHG emissions should be reduced to 1990 levels by 2020, and GHG emissions should be reduced to 80% below 1990 levels by 2050.

EO S-3-05 also directed the California EPA to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team was formed, which subsequently issued reports from 2006 to 2010 (CAT 2016).

AB 32. In furtherance of the goals established in EO S-3-05, the legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the state's long-range climate objectives.

EO B-30-15. EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under EO S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing statewide GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing statewide GHG emissions to 80% below 1990 levels by 2050, as set forth in EO S-3-05. To facilitate achievement of this goal, EO B-30-15 calls for an update to CARB's Scoping Plan to express the 2030 target in terms of MMT CO_2e. The executive order also calls for state agencies to continue to develop and implement GHG emissions reduction programs in support of the reduction targets. Sector-specific agencies in transportation, energy, water, and forestry were required to prepare GHG reduction plans by September 2015, followed by a report on action taken in relation to these plans in June 2016. EO B-30-15 does not require local agencies to take any action to meet the new interim GHG reduction target.

SB 32 and AB 197. SB 32 and AB 197 (enacted in 2016) are companion bills that set a new statewide GHG reduction targets, make changes to CARB's membership and increase legislative oversight of CARB's climate change-based activities, and expand dissemination of GHG and other air-quality-related emissions data to enhance transparency and accountability. More specifically, SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to CARB as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and requires CARB to identify specific information for GHG emissions reduction measures when updating the Scoping Plan.

EO B-55-18. EO B-55-18 (September 2018) establishes a statewide policy for the state to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net-negative emissions thereafter. The goal is an addition to the existing statewide targets of reducing the state's GHG emissions. CARB will work with relevant

state agencies to ensure that future scoping plans identify and recommend measures to achieve the carbon neutrality goal.

Assembly Bill 1279. The Legislature enacted AB 1279, the California Climate Crisis Act, in September 2022. The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

California Air Resources Board's Climate Change Scoping Plan. One specific requirement of AB 32 was for CARB to prepare a scoping plan for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code Section 38561[a]), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The Climate Change Scoping Plan: A Framework for Change (Scoping Plan) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emissions limit and initiate the transformations needed to achieve the state's long-range climate objectives. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
2. Achieving a statewide renewable energy mix of 33%.
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions.
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets.
5. Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (17 CCR 95480 et seq.).
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation.

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations, and for community emissions to reduce GHGs by approximately 15% from then levels (2008) by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The First Update to the Climate Change Scoping Plan: Building on the Framework (First Update) defined the state's GHG emission reduction priorities for the next 5 years, and laid the groundwork to start the transition to the post-2020 goals set forth in EO S-3-05 and EO B-16-2012. The First Update concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050, including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient

and clean energy technologies. As part of the First Update, CARB recalculated the state's 1990 emissions level, using more recent GWPs identified by the IPCC, from 427 MMT CO_2e to 431 MMT CO_2e (CARB 2014).

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in EO S-3-05. The governor called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In the summer of 2016, the legislature affirmed the importance of addressing climate change through passage of SB 32.

In December 2017, CARB adopted California's 2017 Climate Change Scoping Plan (2017 Scoping Plan) for public review and comment (CARB 2017). The 2017 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target as established by SB 32 and define the state's climate change priorities to 2030 and beyond. The strategies' commitments include implementing renewable energy and energy efficiency strategies (including the mandates of SB 350), increasing stringency of the Low Carbon Fuel Standard, implementing measures identified in the Mobile Source and Freight Strategies, implementing measures identified in the proposed Short-Lived Climate Pollutant Reduction Strategy, and increasing stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

For local governments, the 2017 Scoping Plan replaced the initial Scoping Plan's 15% reduction goal with a recommendation to aim for a community-wide goal of no more than 6 MT CO_2e per capita by 2030, and no more than 2 MT CO_2e per capita by 2050, which are consistent with the state's long-term goals. These goals are also consistent with the Under 2 Memorandum of Understanding (Under 2 2016) and the Paris Agreement, which are developed around the scientifically based levels necessary to limit global warming to below 2°C. The 2017 Scoping Plan recognized the benefits of local government GHG planning (e.g., through CAPs) and provided more information regarding tools CARB is working on to support those efforts. It also recognized the CEQA streamlining provisions for project-level review where there is a legally adequate CAP.[8]

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32, SB 32, and the executive orders, and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and executive orders if it meets the general policies in reducing GHG emissions to facilitate the achievement of the state's goals and does not impede attainment of those goals. A project would be consistent if it will further the objectives and not obstruct their attainment.

CARB adopted the 2022 Scoping Plan Update in December 2022, which outlines the state's plan to reach carbon neutrality by 2045 or earlier, while also assessing the progress the state is making toward reducing GHG emissions by at least 40% below 1990 levels by 2030, as is required by SB 32 and laid out in the Second Update. The carbon neutrality goal requires CARB to expand proposed actions from only the reduction of anthropogenic sources of GHG emissions to also include those that capture and store carbon (e.g., through natural and working lands, or mechanical technologies). The carbon reduction programs build on and accelerate those currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical

8 *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490; *San Francisco Tomorrow et al. v. City and County of San Francisco* (2015) 229 Cal.App.4th 498; *San Franciscans Upholding the Downtown Specific Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656; *Sequoyah Hills Homeowners Assn. v. City of Oakland* (1993) 23 Cal.App.4th 704, 719.

and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen (CARB 2022e).

The 2022 Scoping Plan also emphasizes that there is no realistic path to carbon neutrality without carbon removal and sequestration, and to achieve the state's carbon neutrality goal, carbon reduction programs must be supplemented by strategies to remove and sequester carbon. Strategies for carbon removal and sequestration include carbon capture and storage from anthropogenic point sources, where CO_2 is captured as it leaves a facility's smokestack and is injected into geologic formations or used in industrial materials (e.g., concrete); and carbon dioxide removal from ambient air, through mechanical (e.g., direct air capture with sequestration) or nature-based (e.g., management of natural and working lands) applications.

The 2022 Scoping Plan included Appendix D, Local Actions, which includes recommendations intended to build momentum for local government actions that align with the State's climate goals, with a focus on local GHG reduction strategies (commonly referred to as climate action planning) and approval of new land use development projects, including through environmental review under CEQA. The recommendations provided in Appendix D are non-binding and should not be interpreted as a directive to local governments, but rather as evidence-based analytical tools to assist local governments with their role as essential partners in achieving California's climate goals. Appendix D recognizes consistency with a CEQA-qualified GHG reduction plan such as a Climate Action Plan as a preferred option for evaluating potential GHG emission impacts under CEQA. Absent a qualified GHG reduction plan, Appendix D provides additional potential threshold options including key attributes that residential and mixed-use projects should achieve that would align with the State's climate goals, a net-zero threshold, and use of air district recommended thresholds of significance.[9]

SB 605 and SB 1383. SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. The Short-Lived Climate Pollutants Reduction Strategy was approved by CARB in March 2017, and lays out a range of options to reduce short-lived climate pollutant emissions in California, including regulations, incentives, and other market-supporting activities. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for CH_4 and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy in March 2017. This strategy establishes a framework for the statewide reduction of emissions of black carbon, CH_4, and fluorinated gases.

Building Energy

Title 24, Part 6. Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. Although not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and CEC, and revised if necessary (California Public Resources Code [PRC] Section 25402[b][1]). The regulations receive input

[9] The threshold approaches outlined in the 2022 Scoping Plan, Appendix D, are recommendations only and are not requirements; they do not supplant lead agencies' discretion to develop their own evidence-based approaches for determining whether a project would have a potentially significant impact on GHG emissions.

from members of industry and the public, with the goal of "reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (PRC Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (PRC Section 25402[d]) and cost effectiveness (PRC Sections 25402[b][2] and [b][3]). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The 2022 Title 24 standards are the currently applicable building energy efficiency standards, and became effective on January 1, 2023. The 2022 Title 24 standards will improve upon the 2019 standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The CEC adopted the 2022 Title 24 Energy Code in August 2021 and the California Building Standards Commission approved incorporating the updated code into the California Building Standards Code (CALGreen) in December 2021. The 2022 Energy Code will go into effect on January 1, 2023. The 2022 Energy Code focuses on four key areas in newly constructed homes and businesses:

- Encouraging electric heat pump technology for space and water heating, which consumes less energy and produces fewer emissions than gas-powered units.
- Establishing electric-ready requirements for single-family homes to position owners to use cleaner electric heating, cooking, and electric vehicle (EV) charging options whenever they choose to adopt those technologies.
- Expanding solar photovoltaic (PV) system and battery storage standards to make clean energy available onsite and complement the state's progress toward a 100% clean electricity grid.
- Strengthening ventilation standards to improve indoor air quality.

Title 24, Part 11. In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as California's Green Building Standards (CALGreen), and establishes minimum mandatory standards and voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings, schools, and hospitals. The CALGreen 2019 standards, which are the current standards, became effective January 1, 2020.

Title 20. Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. Performance of appliances must be certified through the CEC to demonstrate compliance with standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing for each type of appliance covered under the regulations, and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting to reduce electricity consumption by 50% for indoor residential lighting and by 25% for indoor commercial lighting.

SB 1. SB 1 (Murray) (August 2006) established a $3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for homes and businesses within 10 years of adoption, and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

California AB 1470 (Solar Water Heating). This bill established the Solar Water Heating and Efficiency Act of 2007. AB 1470 makes findings and declarations of the Legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand. AB 1470 defines several terms for purposes of the act. The bill required a commission to evaluate the data available from a specified pilot program, and to design and implement a program of incentives for the installation of 200,000 solar water heating systems in homes and businesses throughout the state by 2017.

Renewable Energy and Energy Procurement

SB 1078 (2002) established the Renewables Portfolio Standard (RPS) program, which requires an annual increase in renewable generation by the utilities. Initially, the RPS required utilities to obtain 20% of their power from renewable sources by 2010. SB X1-2 (2011) subsequently expanded the RPS by establishing that 33% of the total electricity sold to retail customers in California per year by December 31, 2020, and in subsequent years, be secured from qualifying renewable energy sources. SB 350 (2015) further expanded the RPS by establishing that 50% of the total electricity sold to retail customers in California per year by December 31, 2030, be secured from qualifying renewable energy sources. And SB 100 (2018) further accelerated the RPS, requiring achievement of a 50% RPS by December 31, 2026, and a 60% RPS by December 31, 2030. SB 100 also established a new state policy goal that calls for eligible renewable energy resources and zero-carbon resources to supply 100% of electricity retail sales and 100% of electricity procured to serve all state agencies by December 31, 2045.

Under the program, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation of 30 megawatts or less, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB 1368. SB 1368 (September 2006) required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by the California Public Utilities Commission.

AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting, to reduce electricity consumption 50% for indoor residential lighting and 25% for indoor commercial lighting.

EO S-14-08. EO S-14-08 (November 2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. The California Natural Resources Agency (CNRA), through collaboration with the CEC and California Department of Fish and Wildlife (formerly the California Department of Fish and Game), was directed to lead this effort.

EO S-21-09 and SBX1-2. EO S-21-09 (September 2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with the California Public Utilities Commission and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health and can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard. However, this regulation was not finalized because of subsequent legislation (SB X1-2, Simitian, statutes of 2011) signed by Governor Brown in April 2011.

SB X1 2 expanded the Renewables Portfolio Standard by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals previously listed.

SB 350. SB 350 (October 2015, Clean Energy and Pollution Reduction Act) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (e.g., heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the California Public Utilities Commission, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal. Regarding mobile sources, as one of its elements, SB 350 establishes a statewide policy for widespread electrification of the transportation sector, recognizing that such electrification is required for achievement of the state's 2030 and 2050 reduction targets (see California Public Utilities Code Section 740.12).

SB 100. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

SB 1020. SB 1020 (September 2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers come from eligible renewable energy resources and zero-carbon resources: 90% by December 31, 2035; 95% by December 31, 2040; and 100% by December 31, 2045.

Mobile Sources

State Vehicle Standards (AB 1493 and EO B-16-12). AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. It ordered CARB, CEC, California Public Utilities Commission, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

As also explained in Section 3.2.1, "Federal Vehicle Standards", in March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 SAFE-1 rule by finding that the actions taken under the previous administration as a part of SAFE-1 were decided in error and are now entirely rescinded.

EO S-1-07. Issued on January 18, 2007, EO S-1-07 sets a declining Low Carbon Fuel Standard for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The initial target of the Low Carbon Fuel Standard was to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020. The Low Carbon Fuel Standard was subsequently amended in 2018 to require a 20% reduction in carbon intensity by 2030. This new requirement aligns with the California's overall 2030 target of reducing climate changing emissions to 40% below 1990 levels by 2030, set by SB 32. CARB has adopted implementing regulations for both the 10% and 20% carbon intensity reduction targets.

SB 375. SB 375 (2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 required CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035. Regional metropolitan planning organizations are then responsible for preparing a Sustainable Communities Strategy (SCS) within their Regional Transportation Plan (RTP). The goal of the SCS is to establish a forecasted development pattern for the region that, after considering transportation measures and policies, will achieve, if feasible, the GHG reduction targets. If an SCS is unable to achieve the GHG reduction target, a metropolitan planning organization must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to California Government Code Section 65080(b)(2)(K), an SCS does not regulate the use of land; supersede the land use authority of cities and counties; or require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local

planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

In 2010, CARB adopted the SB 375 targets for the regional metropolitan planning organizations. The targets adopted for SANDAG in 2010 are a 7% reduction in per-capita passenger-vehicle GHG emissions by 2020 and a 13% reduction by 2035, measured relative to 2005 GHG emissions. In 2018, CARB adopted the second round of SB 375 reduction targets, and increased SANDAG's 2020 target to a 15% reduction in per-capita passenger-vehicle GHG emissions, and the 2035 target to a 19% reduction using the same 2005 baseline.

SANDAG completed and adopted its 2050 RTP/SCS in October 2011. In November 2011, CARB, by resolution, accepted SANDAG's GHG emissions quantification analysis and determination that, if implemented, the SCS would achieve CARB's 2020 and 2035 GHG emissions reduction targets for the region.

After SANDAG's 2050 RTP/SCS was adopted, a lawsuit was filed by the Cleveland National Forest Foundation and others (*Cleveland National Forest Foundation v. San Diego Association of Governments* (2017) 3 Cal. 5th 497). regarding analysis of EO S-3-05's 2050 goal of an 80% reduction in GHG emissions from 1990 levels. The Supreme Court of California held that the Environmental Impact Report at issue was sufficient to inform the public, based on the information available at the time, about the regional plan's GHG impacts and its potential inconsistency with state climate change goals without including an explicit analysis of the consistency of projected 2050 GHG emissions with the goals in the executive order.

In 2015, SANDAG adopted the next iteration of its RTP/SCS in accordance with statutorily mandated timelines and no subsequent litigation challenge was filed. More specifically, in October 2015, SANDAG adopted San Diego Forward: The Regional Plan (SANDAG 2015). Like the 2050 RTP/SCS, San Diego Forward: Regional Plan meets CARB's 2020 and 2035 reduction targets for the region (SANDAG 2015). In December 2015, CARB, by resolution, accepted SANDAG's GHG emissions quantification analysis and determination that, if implemented, the SCS would achieve CARB's 2020 and 2035 GHG emissions reduction targets for the region. The Regional Plan was updated in 2021, which was the result of years of planning, data analysis, and community engagement to reimagine the San Diego region with a transformative transportation system, a sustainable pattern of growth and development, and innovative demand and management strategies (SANDAG 2021).

Advanced Clean Cars Program. The Advanced Clean Cars program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that by 2025, cars will emit 75% less smog-forming pollution than the average new car sold in 2012. To reduce GHG emissions, CARB, in conjunction with the EPA and NHTSA, adopted new GHG standards for model year 2017 to 2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The zero-emissions vehicle (ZEV) program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018 to 2025 model years.

The ACC II program establishes the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB 2022c). The ACC II rulemaking package also considers technological feasibility, environmental impacts, equity, economic

impacts, and consumer impacts. The ACC II regulations were approved by the California Office of Administrative Law (OAL) and became effective on November 30, 2022.

AB 1236. AB 1236 (October 2015) (Chiu) required a city, county, or city and county to approve an application for the installation of electric vehicle charging stations, as defined, through the issuance of specified permits unless the city or county makes specified written findings based on substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. AB 1236 provided for appeal of that decision to the planning commission, as specified. The bill provided that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is a matter of statewide concern. The bill required electric vehicle charging stations to meet specified standards. AB 1236 required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric vehicle charging stations. The bill also required a city, county, or city and county with a population of fewer than 200,000 residents to adopt this ordinance by September 30, 2017.

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the State towards the target of 100% of in-State sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the State towards the target of 100% of the fleet transitioning to zero-emission vehicles by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other State agencies, the EPA and local air districts, to achieve 100% zero-emission from off-road vehicles and equipment operations in the State by 2035. EO N-79-20 called for the development of a Zero-Emissions Vehicle Market Development Strategy, which was released February 2021, to be updated every 3 years, that ensures coordination and implementation of the EO and outlines actions to support new and used ZEV markets. In addition, the EO specifies identification of near-term actions, and investment strategies, to improve clean transportation, sustainable freight, and transit options; and calls for development of strategies, recommendations, and actions by July 15, 2021, to manage and expedite the responsible closure and remediation of former oil extraction sites as the State transitions to a carbon-neutral economy.

Advanced Clean Trucks (ACT) Regulation. The purpose of the ACT Regulation (June 2020) is to accelerate the market for zero-emission vehicles in the medium- and heavy-duty truck sector and to reduce emissions NO_x, fine particulate matter, TACs, GHGs, and other criteria pollutants generated from on-road mobile sources (CARB 2022c). Requiring medium- and heavy-duty vehicles to transition to zero-emissions technology will reduce health risks to people living in and visiting California and is needed to help California meet established near- and long-term air quality and climate mitigation targets.

EO B-16-12. EO B-16-12 (2012) directs state entities under the Governor's direction and control to support and facilitate development and distribution ZEVs. On a statewide basis, EO B-16-12 also establishes a GHG emissions reduction target from the transportation sector equaling 80% less than 1990 levels by 2050. In furtherance of this executive order, the Governor convened an Interagency Working Group on ZEVs that has published multiple reports regarding the progress made on the penetration of ZEVs in the statewide vehicle fleet.

SB 350. In 2015, SB 350 – the Clean Energy and Pollution Reduction Act – was enacted into law. As one of its elements, SB 350 establishes a statewide policy for widespread electrification of the transportation sector,

recognizing that such electrification is required for achievement of the state's 2030 and 2050 reduction targets (see California Public Utilities Code, Section 740.12).

Solid Waste

AB 939, AB 341, AB 1826, and SB 1383. In 1989, AB 939, known as the Integrated Waste Management Act (PRC Sections 40000 et seq.), was passed because of the increase in waste stream and decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed of where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal. CalRecycle conducted several general stakeholder workshops and several focused workshops, and in August 2015 published a discussion document titled AB 341 Report to the Legislature, which identified five priority strategies that CalRecycle believed would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations, and an evaluation of program effectiveness (CalRecycle 2015).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multi-family residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

SB 1383 (Chapter 395, Statutes of 2016) establishes targets to achieve a 50% reduction in the level of the Statewide disposal of organic waste from the 2014 level by 2020 and a 75% reduction by 2025. CalRecycle was granted the regulatory authority required to achieve the organic waste disposal reduction targets and establishes an additional target that not less than 20% of currently disposed edible food is recovered for human consumption by 2025 (CalRecycle 2019).

Water

EO B-29-15. In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the executive order extended through February 28, 2016, although many of the directives have since become permanent water-efficiency standards and requirements. The executive order includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increased the requirements for landscape water use efficiency and broadened its applicability to include new development projects with smaller landscape areas.

EO B-37-16. Issued May 2016, EO B-37-16 directed the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January 2017 to reflect differing water supply conditions across the state. The State Water Resources Control Board also developed a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The State Water Resources Control Board and Department of Water Resources will develop new, permanent water use targets that build on the existing state law requirements that the state achieve 20% reduction in urban water usage by 2020. EO B-37-16 also specifies that the State Water Resources Control Board permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in fountains and other decorative water features; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.

EO N-10-21. In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

Other State Regulations and Goals

SB 97. SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the Governor's Office of Planning and Research issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2007). The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which a project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emissions threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. The CNRA also acknowledged that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009a).

With respect to GHG emissions, the CEQA Guidelines state in Section 15064.4(a) that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other performance-based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following

when assessing the significance of impacts from GHG emissions on the environment: the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

EO S-13-08. EO Order S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the executive order directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009b), and an update, Safeguarding California: Reducing Climate Risk, followed in July 2014 (CNRA 2014). To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water.

3.2.3 Local

City of Oceanside General Plan

The City of Oceanside's General Plan Circulation Element includes goals and policies to reduce GHG emissions within the City (City of Oceanside 2002). The following goals and policies from the City's General Plan are relevant to the Project:

Circulation Element

Policy 2.5. The City will strive to incorporate complete streets throughout the Oceanside transportation network which are designed and constructed to serve all users of streets, roads and highways, regardless of their age or ability, or whether they are driving, walking, bicycling, or using transit.

Pedestrian Facilities

Goal 5. Support walking as a primary means of transportation that in turn supports transit and bike options. A positive walking environment is essential for supporting smart growth, mixed land uses, transit oriented development, traffic calming and reducing traffic congestion and greenhouse gas emissions.

Intelligent Transportation System Technologies

Policy 4.1. The City shall encourage the reduction of vehicle miles traveled, reduction of the total number of daily and peak hour vehicle trips, and provide better utilization of the circulation system through development and implementation of TDM strategies. These may include, but not limited to, implementation of peak hour trip reduction, encourage staggered work hours, telework programs, increased development of employment centers where transit usage is highly viable, encouragement of ridesharing options in the public and private sector, provision for park-and-ride facilities adjacent to the regional transportation system, and provision for transit subsidies.

Transportation Demand Management

Policy 4.9. The City shall look for opportunities to incorporate TDM [transportation demand management] programs into their Energy Roadmap that contributes to state and regional goals for saving energy and reducing greenhouse gas emissions.

Land Use Element

Air Quality

The City will continue to cooperate with the SDAPCD Board. This will include participation in the development of the Regional Air Quality Strategy (RAQS) through cooperation with the San Diego County Air Quality Planning Team.

Bicycle Facilities

Policy A. Development shall provide Class II Bikeways (Bike Lanes) on all secondary, major, and prime arterials.

Policy D. The use of land shall integrate the Bicycle Circulation System with auto, pedestrian, and transit systems:

- Development shall provide short-term bicycle parking and long-term bicycle storage facilities such as bicycle racks, pedestal posts, and rental bicycle lockers.
- Development shall provide safe and convenient bicycle access to high activity land uses, such as schools, parks, shopping, employment, and entertainment centers.

Pedestrian

Policy A. The construction of five (5) foot wide sidewalks adjacent to the curb shall be required in all new developments and street improvements.

Transit System

Policy A. The City shall coordinate and encourage the existing bus system to serve newly developed areas.

Energy

Policy A. The City shall encourage the design, installation, and use of passive and active solar collection systems.

Policy B. The City shall encourage the use of energy efficient design, structures, materials, and equipment in all land developments or uses.

City of Oceanside Climate Action Plan

The City adopted its Climate Action Plan (CAP) on May 8, 2019 (City of Oceanside 2019). The CAP acts as a roadmap to address challenges of climate change within the City and outlines measures the City will take to make progress towards meeting the State's GHG reduction goals. The CAP includes a baseline GHG emissions inventory for 2013,

GHG emissions forecasts for 2020, 2030, 2035, 2040, and 2050, local GHG emissions reduction strategies and measures to help the City achieve the statewide targets, and implementation and monitoring mechanisms to ensure the City's measures and targets are achieved. The CAP established local GHG emissions reduction targets for future years as follows:

- by 2020, reduce GHG emissions levels to 5 MT CO_2e per capita;
- by 2030, reduce GHG emissions levels to 4 MT CO_2e per capita;
- by 2040, reduce GHG emissions levels to 3 MT CO_2e per capita; and
- by 2050, reduce GHG emissions levels to 2 MT CO_2e per capita.

The CAP was prepared in accordance with the requirements within CEQA Guidelines Section 15183.5, and the CAP Consistency Checklist was used to evaluate the Project's significance with respect to GHG emissions.

City of Oceanside Energy Climate Action Element

The Energy Climate Action Element (ECAE) of the City's General Plan was adopted on May 8, 2019 and addresses energy consumption and other activities within the City that may contribute to adverse energy and GHG impacts. The ECAE focuses on activities associated with human-induced climate change. The ECAE outlines sustainability goals and policies for the City's decision-making process including development review protocols. The primary themes and goals of the ECAE are related to energy efficiency and renewable energy, smart growth and multimodal transportation, zero waste, water conservation, urban greening, local agriculture, and sustainable consumption.

3.3 Significance Criteria and Methodology

3.3.1 Thresholds of Significance

California has developed guidelines to address the significance of GHG emissions impacts that are contained in Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.). Appendix G provides that a project would have a significant environmental impact if it would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

The Appendix G thresholds for GHGs do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). Additional guidance regarding assessment of GHGs is discussed below.

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the Project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made

to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

CEQA Guidelines

With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or performance-based standards" (14 CCR 15064.4[a]). A lead agency may use a "model or methodology" to estimate greenhouse gas emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change" (14 CCR 15064.4[c]). The CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment (14 CCR 15064.4[b]):

3. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
4. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
5. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

In addition, the CEQA Guidelines specify that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7[c]).

The extent to which a project increases or decreases GHG emissions in the existing environmental setting should be estimated in accordance with Section 15064.4, *Determining the Significance of Impacts from Greenhouse Gas Emissions*, of the State CEQA Guidelines. The State CEQA Guidelines indicate that when calculating GHG emissions resulting from a project, lead agencies shall make a good-faith effort based on scientific and factual data (Section 15064.4 (a)), and lead agencies have discretion to select the model or methodology deemed most appropriate for enabling decision makers to intelligently assess the project's incremental contribution to climate change (Section 15064.4 (c)).

The State CEQA Guidelines do not indicate an amount of GHG emissions that constitutes a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Sections 15064.4(a) and 15064.7(c)). Several agencies throughout the state have drafted and/or adopted numerical threshold approaches and guidelines for analyzing the significance of project-related GHG emissions; however, no numerical thresholds have been formally adopted by an air district or lead agency for use in the San Diego region.

Governor's Office of Planning and Research

The Governor's Office of Planning and Research's Technical Advisory, titled Discussion Draft CEQA and Climate Change Advisory (OPR 2018), states the following:

> [N]either the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for perming an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. … Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Approaches to Determining Significance

The significance of the project-related GHG emissions can be determined by evaluating the project's compliance with regulations or requirements adopted to implement statewide, regional, or local plans for the reduction or mitigation of GHG emissions. The state's 2030 target (reduce GHG emissions to 40% below 1990 levels by 2030) has been codified in law through SB 32 and the 2017 Scoping Plan (CARB 2017). Therefore, 2030 marks the next statutory statewide milestone target applicable to the project.

The City's 2019 CAP is a qualified GHG emissions reduction plan in accordance with State CEQA Guidelines Section 15183.5. CEQA Guidelines 15183.5(a) states that Lead Agencies may analyze and mitigate the significant effects of GHG emissions at a programmatic level, such as in a general plan, a long range development plan, or a separate plan to reduce GHG emissions. Later project-specific environmental documents may tier from and/or incorporate by reference the existing programmatic review. 15183.5(b) states that public agencies may choose to analyze and mitigate significant GHG emissions in a plan for the reduction of GHG emissions. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of a CAP.

The City's CAP seeks to align with state efforts to reduce GHG emissions while balancing a variety of community interests: e.g., quality of life, economic development, and social equity. The City of Oceanside's 2019 CAP quantified baseline and projected future GHG emissions from activities within the City. State GHG reduction efforts were first initiated by EO S-3-05 in 2005, which established a 2050 emissions target to stabilize the climate (CARB 2008). EO S-3-05 also established a 2020 GHG emissions target goal, which was later codified by the State Legislature as AB 32. EO B-30-15 then established an additional interim 2030 GHG emissions target, which was also codified by the State Legislature. and proposed City-specific measures and strategies to reduce GHG emissions in accordance with 2020 and 2030 targets codified by the State Legislature. On a per-capita basis the 2020 GHG emissions target requires that emissions be reduced to "about 10 tons per person by 2020" (CARB 2008) and the subsequent

targets require that emissions be reduced to "no more than 6 MT CO_2e per capita by 2030 and no more than 2 MT CO_2e per capita by 2050" (CARB 2017). The City's CAP established GHG reduction targets for 2030 that are more rigorous than the State's 6 MT CO_2e per capita goal. The City's goal is to achieve GHG emission levels of 4 MT CO_2e per capita by 2020, 3.5 MT CO_2e per capita by 2025, and 3.0 MT CO_2e per capita by 2040. A 2050 target of 2.0 MT CO_2e per capita is established for the City consistent with recommendations of the 2017 Scoping Plan and international agreements, such as the "Under 2 MOU," which requires that all "signatories agree to reduce their GHG emissions to two metric tons CO2E per capita by 2050." This is the most commonly agreed upon 2050 target and directly relates to the long term target of EO-S-05.

As discussed in the CAP, to ensure the City remains on track to achieve the long-term reduction goals of the State, the City has implemented GHG reduction measures proactively. The CAP measures outline how the City will reduce its near-term GHG emissions and establish infrastructure to support continued reductions beyond 2030. The City is already projected to meet state-aligned per capita near-term emissions targets (2020 and 2030), as such reduction measures in the CAP (Chapter 3 of the CAP) were selected based on their ability to achieve long-term GHG emission reductions. Measures were focused on energy, water, solid waste, transportation and land use, and agriculture and forestry. Although the City's CAP predates CARB's 2022 Scoping Plan, the City's measures are consistent with CARB's recommendations for Local Actions focused on transportation electrification, VMT reduction, and building decarbonization (CARB 2022e).

The City's CAP establishes communitywide GHG emissions reduction targets based on an efficiency/service population methodology. "Service population" is defined as the sum total of the City's residents and workforce. The City issued a policy directive in May 2023 that provides direction on CEQA-compliant analysis of GHG emissions associated with new development. The 2023 Policy Directive notes that many of the CAP measures are contingent upon the adoption of several ordinances addressing renewable energy, electric vehicle charging facilities, and preferential parking, transportation demand management (TDM), and tree canopy. Accordingly, in the interim, all projects must demonstrate that associated GHG emissions fall below one of two efficiency thresholds noted below:

- Projects that will be implemented after 2020 and prior to end of 2025 must show that GHG emissions related to both construction and operations will not exceed 3.5 MT CO_2e/service population per year.

- Projects that will be implemented after 2025 must show that GHG emissions related to both construction and operations will not exceed 3.0 MT CO_2e/service population per year.

GHG emissions are by nature a cumulative impact, therefore, project's may rely on the City's CAP to determine a project's impact on a project-level/cumulative-level basis. Chapter 4 Implementation, of the City's CAP outlines how the CAP reduction measures will be implemented and establishes a mechanism for individual development project's to evaluate their consistency with the CAP through completion of a checklist.

The City of Oceanside's CAP relies on a screening threshold based on land use size and a CAP Consistency Checklist to determine whether a project's emissions would be consistent with GHG emissions estimated within the City's CAP. Consistent with the California Air Pollution Control Officers Association (CAPCOA) CEQA and Climate Change document (CAPCOA 2008) , the City has established a bright line threshold of significance for GHG emissions impacts: 900 MT CO_2e annually, with construction-related emissions amortized over 20 years. Specifically, the City has determined that new development projects emitting less than 900 MT CO_2e annual GHG would not contribute considerably to cumulative climate change impacts, and therefore do not need to demonstrate consistency with the CAP strategies, and would be determined to not conflict with the CAP. The 900 MT CO2e bright-line threshold

represents a market capture rate of 90% of all development projects (CAPCOA 2008). The objective of the bright-line threshold is to set the emissions low enough to capture a substantial fraction of future residential and non-residential development that will be constructed to accommodate future statewide population and job growth, while setting the emission threshold high enough to exclude small development projects that will contribute a relatively small fraction of the cumulative statewide GHG emissions (CAPCOA 2008). The 90% capture rate of new development establishes a strong basis for demonstrating that cumulative reductions are being achieved across the state. Projects greater than 900 MT CO_2e would be required to show CAP Checklist consistency, which can be used to determine that the project would be consistent with the CAP. Essentially, to demonstrate that a project would comply with the CAP, requires a two-step process: the first step is a screening-level bright line threshold, which if exceeded, would require the second step, which is a CAP efficiency and CAP measures consistency analysis.

CEQA Guidelines Section 15183.5(2) states that an environmental document that relies on a GHG reduction plan for a cumulative impact analysis must identify those requirements specified in the plan that apply to the project, and if those requirements are not otherwise biding and enforceable, incorporate those requirements as mitigation measures applicable to the project. In accordance with Section 15183.5(2) of the CEQA Checklist, the CAP Checklist provides for streamlined review of projects subject to environmental review, offering an alternative to project-specific analysis of GHG emissions impacts. The Checklist is available to projects that meet locational requirements that further the City's efforts to facilitate housing and employment growth in walkable, transit-served areas, as well as projects that either 1) conform to current land use and zoning standards or 2) involve uses that would generate less GHG emissions than those allowed under current standards.

As discussed above under Section 3.3.1 Thresholds of Significance, GHG emissions are recognized exclusively as a cumulative impact (CAPCOA 2008). The CAP Consistency Checklist is used to determine project-level significance in accordance with CEQA Guidelines Section 15183.5; the measures in the CAP Consistency Checklist identify the specific requirements that must be implemented by development projects on a city-wide basis to achieve the City's identified reduction targets. The CAP addresses the cumulative impact of GHG emissions on a city-wide basis and a project's compliance with the CAP supports the City's GHG emission reduction goals.

In accordance with Section 15064.4 of the State CEQA Guidelines, GHG emissions resulting from construction and operation of the project were quantitatively estimated. The potential impacts from project-related GHG emissions were assessed based on the total increase above the existing environmental setting, which is largely formerly developed, vacant land. The GHG emissions associated with implementation of the project were estimated using industry standard and accepted software tools, techniques, and emissions factors. The significance of the project's GHG impacts is based on the project's compliance with the City's CAP measures which includes GHG efficiency metrics.

3.3.2 Approach and Methodology

3.3.2.1 Construction

Construction of the Project would result in emissions of GHG emissions primarily associated with use of off-road construction equipment, on-road haul and vendor (material delivery) truck trips, and worker vehicle trips. As discussed previously in Section 2.3.2, emissions from the construction phase of Project components were

estimated using the CalEEMod Version 2020.4.0[10]. Per preliminary project details, it is assumed that construction of the Project would begin in January 2024 and would last approximately 24 months. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.3.2. above, and complete details of the emissions calculations are provided in Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*. Per City Guidance, construction-related GHG emissions were amortized over 20 years and added to operational emissions to assess significance.

3.3.2.2 Operation

Operation of the Project would generate GHG emissions from mobile sources, area sources (landscape maintenance equipment), energy use, water use and wastewater generation, and solid waste (i.e., CO_2e emissions associated with landfill off-gassing). As with project construction, CalEEMod Version 2020.4.0 was used to estimate potential project-generated operational GHG emissions based on Project land uses. It was assumed that the project would be operational following the completion of construction, which would occur in 2026.

Area

The area source category calculates direct sources of GHG emissions located at the Project site including hearths and landscape maintenance equipment. This source category does not include the emissions associated with natural gas usage in space heating and water heating as these are calculated in the building energy use module of CalEEMod. The project includes a PDF that prohibits fireplaces in residential units.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, roto tillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. The emissions associated from landscape equipment use were estimated using CalEEMod defaults. For San Diego County, CalEEMod assumes that landscaping equipment would operate 180 days per year. To be conservative, emissions were estimated assuming that landscape maintenance equipment was powered by gasoline or diesel fuel, and not electrified.

Energy

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). CalEEMod default values for energy consumption were applied to each land use. The energy use from residential land uses is calculated in CalEEMod based on the Residential Appliance Saturation Survey. Energy use from the non-residential land uses is based on various studies and assessments as described in Section 7.3, *Estimating Energy Use from Other Land Uses*, of Appendix A of the CalEEMod User's Guide (CAPCOA 2021).

[10] CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects. The model was developed for the California Air Pollution Control Officers Association in collaboration with multiple air districts across the state. Numerous lead agencies in the state, including SDAPCD, use CalEEMod to estimate GHG emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

Annual natural gas and electricity emissions were estimated in CalEEMod using default values for emissions factors for San Diego Gas and Electric (SDG&E), which would be the energy source provider for the Project. The project includes PDF-GHG-1 that ensures PV systems are installed on each building to meet 50% of forecasted electricity demand.

Mobile Sources (Motor Vehicles)

Following the completion of construction activities, the Project would generate GHG emissions from mobile sources (vehicular traffic), as a result of residents associated with the 164 residential units. The CalEEMod Version 2020.4.0 model was used to estimate daily emissions from vehicular sources (refer to Appendix A). CalEEMod Version 2020.4.0 default data, including trip rate, temperature, trip characteristics, variable start information, and emissions factors were used for the model inputs. Emission factors representing the vehicle mix and emission factors for 2026 were used to estimate emissions associated with vehicular sources.

Solid Waste

The Project would generate solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the Project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment.

For additional details see Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

3.4 Impact Analysis

3.4.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

and/or

Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The City of Oceanside's CAP was adopted in May 2019 to assist the City in reducing GHG emissions to 4 MT CO_2e per capita by 2030, and 2 MT CO_2e per capita by 2050 to align with the state's targets established by EOs B-30-15 and S-3-05, respectively. According to the City's CAP, new discretionary development projects subject to CEQA review that emit less than 900 MT CO_2e annually would not contribute considerably to cumulative climate change impacts, and therefore, would be considered consistent with the CAP and associated emissions projections. Projects that exceed the 900 MT CO_2e are evaluated to determine if the CAP Consistency Checklist is applicable. In addition, pursuant to the City's May

2023 Policy Directive, a project's per service population emissions shall be determined and evaluated against the City's targets based on when a project is to be implemented to ensure that the project would comply with the CAP. As such, the evaluation presented below assess the project's consistency with the CAP through two tests: (1) CAP Consistency Checklist, and (2) per service population efficiency metric.

Project-generated GHG emissions were estimated per the methodology described in the Air Quality and Greenhouse Gas Technical Report (Section 2.3.2 and 3.3.2) and are discussed for construction and operation below. Quantification of GHG emissions is provided pursuant to CEQA Guidelines 15064.4(c) as the determination of significance is based on the CAP Consistency Checklist.

Project's Consistency with the CAP

CAP Consistency Checklist

Projects that meet one or more of the following locational criteria are eligible for using the CAP Consistency Checklist:

1. The project site is located within a designated Smart Growth Opportunity Area.
2. The project site is located with ¼ mile of a priority TOD corridor, as identified in the City's Smart and Sustainable Corridors Plan.

   Items 1 and 2 pertain to the City's focus on where development will occur. The City seeks to accommodate future housing and job growth primarily through infill and redevelopment within already urbanized areas. Specifically, the City seeks to facilitate new residential and employment-oriented development within SANDAG-designated Smart Growth Opportunity Areas and prior corridors (i.e., Coast Hwy, Mission Avenue, Oceanside Blvd, Vista Way).
3. The project is consistent with current land use and zoning designations.

   Item 3 ensures that projected growth and development along with GHG emissions would be consistent with projections included in the CAP.
4. The project requires amendment of current land use and zoning designations. As demonstrated through a detailed analysis a) consistent with the precedent in the surrounding zoning district and b) subject to third party expert review, the proposed land uses would generate less GHG emissions than those associated with uses allowed under current land use and zoning designations.

   Similar to Item 3, this measure allows for projects that require land use changes to use the CAP checklist if the projected GHG emissions would be comparable or less than the existing land use designation.

In response to Item 1, the project site is not located within a Smart Growth Opportunity Area, it is located approximately 50 feet outside a smart growth area. The project would not meet locational criteria 1.

In response to Item 2, the project site is located approximately 0.75 miles from the nearest TOD corridor. The project would not meet locational criteria 2.

In response to Item 3, the project is not consistent with the current land use and zoning designation because it requires a general plan amendment and rezone. The project would not meet criteria 3.

In response to Item 4, although the project requires a general plan amendment and rezone, it would generate less GHG emissions than those associated with the uses allowed under current land use and zoning designation. The project's development intensity (measured by vehicle trips and VMT) would be less than the current land use

designation. Table 18 below shows how the project would generate less GHG emissions than allowed uses under the existing land use and zoning designations.

Table 18. Comparison of Estimated Annual Operational Greenhouse Gas Emissions – Unmitigated

Development	Land Use Developed	CO_2	CH_4	N_2O	Refrigerants	CO_2e
		metric tons per year				
Proposed Project	164 multi-family residential units	1,142.70	1.50	0.03	1.42	1,193.10
Existing General Plan Land Use Designation (CI) and Zoning (PS)	Hospital (100 beds)	2,369.6	3.05	0.15	3.09	2,480.42
	Government Office (150)	2,835.9	2.39	0.13	3.82	2,942.16
	Highschool (1,000 students)	1,770.61	1.88	0.07	2.51	1,844.14

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent
See Appendix A for complete results.

Because the project would generate fewer GHG emissions than the existing land use designations, it would meet criteria 4 and would be eligible to use the CAP Consistency Checklist.

As discussed previously, CEQA Guidelines Section 15183.5(2) states that an environmental document that relies on a GHG reduction plan for a cumulative impact analysis must identify those requirements specified in the plan that apply to the project, and if those requirements are not otherwise biding and enforceable, incorporate those requirements as mitigation measures applicable to the project. In accordance with Section 15183.5(2) of the CEQA Guidelines, the CAP Checklist provides for streamlined review of projects subject to environmental review, offering an alternative to project-specific analysis of GHG emissions impacts.

Table 19 includes the CAP Checklist items and the related project consistency analysis.

Table 19. Climate Action Plan Consistency Checklist and Project Consistency

Check List Item	Project Consistency
1. On-Site Renewable Energy Supply. If the project meets one or more of the thresholds outlined in Section 3047 of the City's Zoning Ordinance, will at least 50 percent of the estimated electricity demand be met with on-site renewable emissions-free energy supply (e.g., solar photovoltaic facilities)?	**Consistent.** The Project is a residential project that includes more than 25 dwelling units, and is therefore required to comply with the on-site renewable energy supply provisions of the checklist. The Project includes roof-top solar PV, which will accommodate at least 50% of energy demand during operation.
2. Electric Vehicle Charging Facilities. If the project involves new development that requires at least five (5) parking spaces, will the project comply with the requirements of Section 3048 of the City's Zoning Ordinance?	**Consistent.** The Project includes a total of 384 parking spaces for residences and guests, and is therefore required to comply with the requirements of Section 3048 of the City's Zoning Ordinance. Per Section 3048, the Project will reserve 15% of parking spaces for zero-emission vehicles and equip 50% of those reserved spaces with Level 2 electric vehicle charging facilities.
3. Recycled Water Infrastructure. Does the City's Water Utilities Department require that the project install infrastructure to provide for recycled water service?	**Not Applicable.** The Project is not required to use recycled water.
4. Transportation Demand Management (TDM). Per Section 3050 of the City's Zoning Ordinance, does the proposed project expected to generate at least 100 daily employee commute trips, necessitating the preparation and implementation of a TDM Plan?	**Not Applicable.** The Project is a residential project and this measure does not apply.
5. Urban Forestry. Will the project comply with the minimum tree canopy and permeable surface area requirements outlined in Section 3049 of the City's Zoning Ordinance?	**Consistent.** The Project will provide a minimum of 12% tree canopy coverage and 22% permeable surface, which meets the requirements outlined in Section 3049 of the City's Zoning Ordinance.

Source of Checklist Items: City of Oceanside, 2019

As shown in Table 19, the project is consistent with the CAP Consistency Checklist adopted by the City to ensure that the emission targets identified in the CAP are achieved. Therefore, the project is not expected to generate GHG emissions that may have a significant impact on the environment, and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and the impact would be **less than significant**.

Per Service Population Efficiency Metric

As discussed previously, pursuant to the City's May 2023 Policy Directive, a project's GHG emissions are to be quantified and its per service population emissions determined and evaluated against the City's targets based on when a project is to be implemented to ensure that the project would comply with the City's CAP, which is presented below.

Construction Emissions

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road haul and vendor (material delivery) truck trips, and worker vehicle trips. Emissions from the construction phase of project components were estimated using the CalEEMod Version 2022.1[11]. Per preliminary project details, it is assumed that construction of the project would begin in January 2024 and would last approximately 21 months. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Appendix B. Per City Guidance, construction-related GHG emissions were amortized over 20 years and added to operational emissions to assess significance.

Table 20 shows the estimated annual GHG construction emissions associated with the project. Complete details of the construction emissions calculations are provided in Appendix B.

Table 20. Estimated Annual Construction GHG Emissions

	CO_2	CH_4	N_2O	Refrigerant	CO_2e
Year		Metric Tons			
2024	393	0.05	0.02	0.26	400
2025	162	0.01	0.01	0.18	165
Total	555	0.06	0.03	0.44	565
				Amortized Emissions (20 years)	28.2

Source: CalEEMod Version 2022.1
Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent. See Appendix A for complete results. <0.01 = reported value is less than 0.01.

As shown in Table 20, the estimated total GHG emissions from construction of the project would be approximately 565 MT CO_2e. When amortized over 20 years, the estimated annual GHG emissions from construction of the project would be approximately 28 MT CO_2e per year.

Operational Emissions

Operation of the project would generate GHG emissions from mobile sources, area sources (landscape maintenance equipment), energy use, water use and wastewater generation, and solid waste (i.e., CO_2e emissions associated with landfill off-gassing). As with project construction, CalEEMod Version 2022.1 was used to estimate potential project-generated operational GHG emissions based on project land uses. It was assumed that the project would be operational following the completion of construction, which would occur in 2026.

Table 21 shows the estimated annual GHG operational emissions associated with the project. As discussed above, total annual operational emissions were combined with amortized (20 years) construction emissions and compared to the recommended efficiency metric threshold. Complete details of the construction emissions calculations are provided in Appendix A.

[11] CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects. The model was developed for the California Air Pollution Control Officers Association in collaboration with multiple air districts across the state. Numerous lead agencies in the state, including SDAPCD, use CalEEMod to estimate GHG emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

Table 21. Summary of Estimated Annual GHG Emissions

Emissions Source	MT CO_2	MT CH_4	MT N_2O	Refrigerants	MT CO_2e
Mobile	803	0.04	0.03	1.21	815
Area	139	0.16	<0.01	-	143
Energy[1]	186	0.02	<0.01	-	187
Water	3.83	0.19	<0.01	-	9.93
Waste	10.9	1.09	0.00	-	38.0
Refrigerants	-	-	-	0.21	0.21
Total	**1,142.70**	**1.50**	**0.03**	**1.42**	**1,193.10**
				Amortized Construction Emissions (20 years)	*28*
				Project Operations + Amortized Construction Total	***1,221.14***
				Service Population	*457*
				GHG Efficiency Threshold for Post-2025	*3.0*
				Project GHG Efficiency Metric	*2.67*
				Conflict with City's GHG Policy Directive?	**No**

Source: See Appendix A for complete results.
Notes: GHG = greenhouse gas; MT = metric tons; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent. <0.01 = reported value is less than 0.01.
1. The above energy emissions estimate assumed the use of natural gas; the Project will not include natural gas thus the energy GHG emissions would be reduced. The total GHG emissions shown are conservative.

As shown in Table 21, the Project's GHG efficiency/service population would be consistent with the City's Policy Directive of achieving no more than 3.0 MT CO_2e post-2025. Accordingly, the Project would not generate GHG emissions that would have a significant impact on the environment. The Project's GHG emissions would be **less than significant.**

Consistency with Senate Bill 32, Assembly Bill 1279, Executive Order S-3-05, and Assembly Bill 1279

EO S-3-05 identified the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. AB 1279 establishes a policy of the state to achieve net zero GHG emissions no later than 2045 and for statewide anthropogenic GHG emissions to be reduced to at least 85% below 1990 levels by 2045.

Each Scoping Plan builds upon the successful framework established by the initial Scoping Plan and subsequent updates, while also identifying new, technologically feasible, and cost-effective strategies to ensure that California meets increasingly stringent GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Scoping Plan updates have continued to express optimism in meeting future year targets of 2050 and 2030, as evaluated in the 2014 and 2017 Scoping Plans (respectively), and most recently, the 2045 goal addressed in the 2022 Scoping Plan under EO B-55-18, which AB 1279 codified and expanded on.

While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasted in the 2014 Scoping Plan that compliance with the current Scoping Plan would put the state on a trajectory of meeting the long-term 2050 GHG goals, although the specific path to compliance was unknown at the time (CARB 2014). The 2017 Scoping Plan outlined a strategy to achieve the 2030 GHG reduction target. The proposed scenario in the 2022 Scoping Plan lays out a path not just to carbon neutrality by 2045, but also to the 2030 GHG emissions reduction target (CARB 2022b). The modeling indicates that, if the plan described in the proposed scenario is fully implemented, and done so on schedule, the state is on track to reduce its emissions to 260 MMT CO_2e by 2030 (CARB 2022b).

The City is on track to meet state-aligned emissions reduction targets for 2020 and 2030 without additional emissions reduction measures (Oceanside 2019). However, the City understands that meeting long-term reduction targets requires aggressive action. As such, the City has developed near-term local GHG emissions targets more aggressive than State targets that put the City on a trajectory consistent with the State's 2050 GHG emissions targets, which represent the level necessary to stabilize the climate in the latter part of the 21st century (Oceanside 2019). Regarding, AB 1279, it is important to note that the state's carbon neutrality goal does not preclude any individual project from emitting GHG emissions. AB 1279 codifies EO B-55-18, however, its enactment was linked to the concurrent enactment of SB 905, which requires CARB to create a Carbon Capture, Removal, Utilization, and Storage Program that, fundamentally, will sequester carbon emitted by other projects. Therefore, the state's carbon neutrality goal does not preclude all individual projects from emitting GHG emissions.

As discussed above, the project would be consistent with the CAP and, therefore, would be consistent with state GHG reduction goals and progress towards achieving carbon neutrality.

Consistency with SANDAG RTP/SCS

At the regional level, the SANDAG's RTP/SCS has been adopted for the purpose of reducing GHG emissions attributable to passenger vehicles in the San Diego region. In October 2015, SANDAG adopted its Regional Plan, which was subsequently updated in 2021. The RTP/SCS is not directly applicable to the project because the underlying purpose of the RTP/SCS is to provide direction and guidance on future regional growth (i.e., the location of new residential and nonresidential land uses) and transportation patterns throughout the City and greater San Diego County, as stipulated under Senate Bill 375. CARB has recognized that the approved RTP/SCS is consistent with Senate Bill 375. The SANDAG Regional Plan is generally consistent with the local government plans. Since the Project is within the scope of development that was anticipated in the General Plan, it would not result in growth that would conflict with the Regional Plan.

As noted above, the proposed project would not generate GHG emissions that have a significant impact on the environment because it is determined to be consistent with the City's CAP, which is the most applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs (See: Table 4.7-5). Therefore, the proposed project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases and the impact would be **less than significant**.

Summary

Based on the preceding considerations, the project would not conflict with an applicable plan adopted for the purpose of reducing GHG emissions or generate GHG emissions that would have a significant impact on the environment; therefore, the Project's impacts on GHG emissions would be **less than significant**.

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Appendix A

CalEEMod Outputs and Estimated Emissions

Oceanside Pacifica - Const & Ops (2026) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oceanside Pacifica - Const & Ops (2026)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.90
Precipitation (days)	12.0
Location	33.25670785622732, -117.30359434657936
County	San Diego
City	Oceanside
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6244
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	84.0	Dwelling Unit	1.64	89,040	0.00	0.00	234	—
Parking Lot	56.0	Space	0.50	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	2.39	Acre	2.39	0.00	0.00	0.00	—	—

Condo/Townhouse	80.0	Dwelling Unit	1.57	84,800	0.00	0.00	223	—
City Park	7.63	Acre	7.63	0.00	332,332	332,332	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads
Energy	E-10-A	Establish Onsite Renewable Energy Systems: Generic

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.2	5.86	10.6	0.01	0.29	2.95	3.11	0.26	0.31	0.46	—	2,281	2,281	0.10	0.11	5.84	2,323
Mit.	27.2	5.86	10.6	0.01	0.29	1.13	1.27	0.26	0.27	0.40	—	2,281	2,281	0.10	0.11	5.84	2,323
% Reduced	—	—	—	—	—	62%	59%	—	13%	12%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	29.4	39.8	33.1	0.08	1.66	15.6	16.3	1.52	4.09	5.61	—	11,001	11,001	0.57	1.48	0.52	11,458
Mit.	29.4	39.8	33.1	0.08	1.66	9.75	10.5	1.52	1.73	3.10	—	11,001	11,001	0.57	1.48	0.52	11,458
% Reduced	—	—	—	—	—	38%	36%	—	58%	45%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.36	7.30	8.89	0.02	0.28	2.90	3.18	0.26	0.71	0.96	—	2,371	2,371	0.11	0.14	1.55	2,416
Mit.	3.36	7.30	8.89	0.02	0.28	1.55	1.83	0.26	0.38	0.64	—	2,371	2,371	0.11	0.14	1.55	2,416
% Reduced	—	—	—	—	—	47%	43%	—	46%	34%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.61	1.33	1.62	< 0.005	0.05	0.53	0.58	0.05	0.13	0.18	—	393	393	0.02	0.02	0.26	400
Mit.	0.61	1.33	1.62	< 0.005	0.05	0.28	0.33	0.05	0.07	0.12	—	393	393	0.02	0.02	0.26	400
% Reduced	—	—	—	—	—	47%	43%	—	46%	34%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	360	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	360	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.16	5.86	10.6	0.01	0.29	2.95	3.11	0.26	0.31	0.46	—	2,281	2,281	0.10	0.11	5.84	2,323
2025	27.2	3.63	10.2	0.01	0.12	1.13	1.25	0.11	0.27	0.38	—	2,251	2,251	0.10	0.11	5.44	2,292
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	29.4	39.8	33.1	0.08	1.66	15.6	16.3	1.52	4.09	5.61	—	11,001	11,001	0.57	1.48	0.52	11,458
2025	29.3	3.70	9.53	0.01	0.12	1.13	1.25	0.11	0.27	0.38	—	2,188	2,188	0.10	0.11	0.14	2,224
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.94	7.30	8.89	0.02	0.28	2.90	3.18	0.26	0.71	0.96	—	2,371	2,371	0.11	0.14	1.55	2,416
2025	3.36	1.58	4.27	< 0.005	0.05	0.52	0.57	0.05	0.12	0.17	—	977	977	0.05	0.05	1.07	994
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.17	1.33	1.62	< 0.005	0.05	0.53	0.58	0.05	0.13	0.18	—	393	393	0.02	0.02	0.26	400
2025	0.61	0.29	0.78	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	162	162	0.01	0.01	0.18	165

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.16	5.86	10.6	0.01	0.29	1.13	1.27	0.26	0.27	0.40	—	2,281	2,281	0.10	0.11	5.84	2,323
2025	27.2	3.63	10.2	0.01	0.12	1.13	1.25	0.11	0.27	0.38	—	2,251	2,251	0.10	0.11	5.44	2,292
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	29.4	39.8	33.1	0.08	1.66	9.75	10.5	1.52	1.73	3.10	—	11,001	11,001	0.57	1.48	0.52	11,458
2025	29.3	3.70	9.53	0.01	0.12	1.13	1.25	0.11	0.27	0.38	—	2,188	2,188	0.10	0.11	0.14	2,224
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.94	7.30	8.89	0.02	0.28	1.55	1.83	0.26	0.38	0.64	—	2,371	2,371	0.11	0.14	1.55	2,416
2025	3.36	1.58	4.27	< 0.005	0.05	0.52	0.57	0.05	0.12	0.17	—	977	977	0.05	0.05	1.07	994
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.17	1.33	1.62	< 0.005	0.05	0.28	0.33	0.05	0.07	0.12	—	393	393	0.02	0.02	0.26	400
2025	0.61	0.29	0.78	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	162	162	0.01	0.01	0.18	165

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.9	5.68	67.9	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	9,026	9,994	12.3	0.23	18.2	10,389
Mit.	11.9	5.68	67.9	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,984	9,952	12.3	0.23	18.2	10,345
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	2%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.1	5.78	57.3	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,776	9,744	12.3	0.24	1.68	10,126
Mit.	11.1	5.78	57.3	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,735	9,702	12.3	0.24	1.68	10,082
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	2%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	8.18	3.63	32.5	0.08	1.34	1.68	3.02	1.29	0.30	1.59	277	6,666	6,943	9.04	0.24	8.56	7,248
Mit.	8.18	3.63	32.5	0.08	1.34	1.68	3.02	1.29	0.30	1.59	277	6,624	6,901	9.01	0.23	8.56	7,204
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	0.66	5.93	0.02	0.24	0.31	0.55	0.24	0.05	0.29	45.8	1,104	1,149	1.50	0.04	1.42	1,200
Mit.	1.49	0.66	5.93	0.02	0.24	0.31	0.55	0.24	0.05	0.29	45.8	1,097	1,143	1.49	0.04	1.42	1,193
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	13.7	40.0	100	40.0	—	—	15.0	—	—	10.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119
Area	9.26	2.88	47.2	0.14	5.46	—	5.46	5.27	—	5.27	891	2,807	3,698	4.22	0.01	—	3,805
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,167	1,167	0.16	0.01	—	1,174
Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	11.9	5.68	67.9	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	9,026	9,994	12.3	0.23	18.2	10,389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Area	8.43	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,167	1,167	0.16	0.01	—	1,174
Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	11.1	5.78	57.3	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,776	9,744	12.3	0.24	1.68	10,126
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.56	2.11	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,850	4,850	0.24	0.20	7.31	4,922
Area	5.58	0.67	13.1	0.03	1.23	—	1.23	1.18	—	1.18	200	637	837	0.95	< 0.005	—	862
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,167	1,167	0.16	0.01	—	1,174
Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25

Total	8.18	3.63	32.5	0.08	1.34	1.68	3.02	1.29	0.30	1.59	277	6,666	6,943	9.04	0.24	8.56	7,248
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815
Area	1.02	0.12	2.39	0.01	0.22	—	0.22	0.22	—	0.22	33.2	105	139	0.16	< 0.005	—	143
Energy	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	193	193	0.03	< 0.005	—	194
Water	—	—	—	—	—	—	—	—	—	—	1.83	2.00	3.83	0.19	< 0.005	—	9.93
Waste	—	—	—	—	—	—	—	—	—	—	10.9	0.00	10.9	1.09	0.00	—	38.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	1.49	0.66	5.93	0.02	0.24	0.31	0.55	0.24	0.05	0.29	45.8	1,104	1,149	1.50	0.04	1.42	1,200

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119
Area	9.26	2.88	47.2	0.14	5.46	—	5.46	5.27	—	5.27	891	2,807	3,698	4.22	0.01	—	3,805
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,125	1,125	0.13	0.01	—	1,130
Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	11.9	5.68	67.9	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,984	9,952	12.3	0.23	18.2	10,345
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Area	8.43	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,125	1,125	0.13	0.01	—	1,130

Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	11.1	5.78	57.3	0.19	5.57	1.68	7.25	5.37	0.30	5.67	968	8,735	9,702	12.3	0.24	1.68	10,082
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.56	2.11	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,850	4,850	0.24	0.20	7.31	4,922
Area	5.58	0.67	13.1	0.03	1.23	—	1.23	1.18	—	1.18	200	637	837	0.95	< 0.005	—	862
Energy	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,125	1,125	0.13	0.01	—	1,130
Water	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Waste	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	8.18	3.63	32.5	0.08	1.34	1.68	3.02	1.29	0.30	1.59	277	6,624	6,901	9.01	0.23	8.56	7,204
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815
Area	1.02	0.12	2.39	0.01	0.22	—	0.22	0.22	—	0.22	33.2	105	139	0.16	< 0.005	—	143
Energy	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	186	186	0.02	< 0.005	—	187
Water	—	—	—	—	—	—	—	—	—	—	1.83	2.00	3.83	0.19	< 0.005	—	9.93
Waste	—	—	—	—	—	—	—	—	—	—	10.9	0.00	10.9	1.09	0.00	—	38.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	1.49	0.66	5.93	0.02	0.24	0.31	0.55	0.24	0.05	0.29	45.8	1,097	1,143	1.49	0.04	1.42	1,193

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	12.8	11.3	0.02	0.54	—	0.54	0.50	—	0.50	—	1,764	1,764	0.07	0.01	—	1,770
Demolition	—	—	—	—	—	10.4	10.4	—	1.57	1.57	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.70	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	96.7	96.7	< 0.005	< 0.005	—	97.0
Demolition	—	—	—	—	—	0.57	0.57	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	16.0	16.0	< 0.005	< 0.005	—	16.1
Demolition	—	—	—	—	—	0.10	0.10	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.19	12.7	4.41	0.06	0.16	2.30	2.46	0.16	0.63	0.79	—	9,099	9,099	0.49	1.46	0.51	9,546
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.04	4.04	< 0.005	< 0.005	0.01	4.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	2.91
Hauling	0.01	0.69	0.24	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	—	498	498	0.03	0.08	0.46	523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	0.13	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.5	82.5	< 0.005	0.01	0.08	86.7

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	12.8	11.3	0.02	0.54	—	0.54	0.50	—	0.50	—	1,764	1,764	0.07	0.01	—	1,770
Demolition	—	—	—	—	—	6.65	6.65	—	1.01	1.01	—	—	—	—	—	—	—

Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.70	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	96.7	96.7	< 0.005	< 0.005	—	97.0
Demolition	—	—	—	—	—	0.36	0.36	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	16.0	16.0	< 0.005	< 0.005	—	16.1
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.19	12.7	4.41	0.06	0.16	2.30	2.46	0.16	0.63	0.79	—	9,099	9,099	0.49	1.46	0.51	9,546
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.04	4.04	< 0.005	< 0.005	0.01	4.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	2.91
Hauling	0.01	0.69	0.24	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	—	498	498	0.03	0.08	0.46	523

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	0.13	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.5	82.5	< 0.005	0.01	0.08	86.7

3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	12.8	12.3	0.02	0.57	—	0.57	0.52	—	0.52	—	1,959	1,959	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.35	0.34	< 0.005	0.02	—	0.02	0.01	—	0.01	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.02	2.02	< 0.005	< 0.005	< 0.005	2.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	12.8	12.3	0.02	0.57	—	0.57	0.52	—	0.52	—	1,959	1,959	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.35	0.34	< 0.005	0.02	—	0.02	0.01	—	0.01	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.02	2.02	< 0.005	< 0.005	< 0.005	2.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.02	39.6	32.4	0.07	1.65	—	1.65	1.52	—	1.52	—	7,919	7,919	0.32	0.06	—	7,946
Dust From Material Movement	—	—	—	—	—	10.3	10.3	—	3.77	3.77	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.26	2.66	0.01	0.14	—	0.14	0.13	—	0.13	—	651	651	0.03	0.01	—	653
Dust From Material Movement	—	—	—	—	—	0.84	0.84	—	0.31	0.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.59	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02	—	108	108	< 0.005	< 0.005	—	108
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.69	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	146	146	0.01	0.01	0.02	148

Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.3
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.37
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	< 0.005	2.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.02	39.6	32.4	0.07	1.65	—	1.65	1.52	—	1.52	—	7,919	7,919	0.32	0.06	—	7,946
Dust From Material Movement	—	—	—	—	—	4.00	4.00	—	1.47	1.47	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	—	14.3	14.3	< 0.005	< 0.005	< 0.005	15.0

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.26	2.66	0.01	0.14	—	0.14	0.13	—	0.13	—	651	651	0.03	0.01	—	653
Dust From Material Movement	—	—	—	—	—	0.33	0.33	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.59	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02	—	108	108	< 0.005	< 0.005	—	108
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.69	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	146	146	0.01	0.01	0.02	148
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.3
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.37

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	< 0.005	2.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.16	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05	—	264	264	0.01	< 0.005	—	265
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.8	43.8	< 0.005	< 0.005	—	43.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.40	5.93	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,161	1,161	0.05	0.04	4.66	1,180
Vendor	0.02	0.63	0.29	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	459	459	0.02	0.06	1.18	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	5.19	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,096	1,096	0.06	0.04	0.12	1,110
Vendor	0.02	0.65	0.30	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	459	459	0.02	0.06	0.03	478
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	2.10	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	442	442	0.02	0.02	0.80	449
Vendor	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	183	183	0.01	0.03	0.20	191
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.38	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.2	73.2	< 0.005	< 0.005	0.13	74.3
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.4	30.4	< 0.005	< 0.005	0.03	31.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.16	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05	—	264	264	0.01	< 0.005	—	265
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.8	43.8	< 0.005	< 0.005	—	43.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.40	5.93	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,161	1,161	0.05	0.04	4.66	1,180
Vendor	0.02	0.63	0.29	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	459	459	0.02	0.06	1.18	479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	5.19	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,096	1,096	0.06	0.04	0.12	1,110
Vendor	0.02	0.65	0.30	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	459	459	0.02	0.06	0.03	478
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	2.10	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	442	442	0.02	0.02	0.80	449
Vendor	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	183	183	0.01	0.03	0.20	191
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.38	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.2	73.2	< 0.005	< 0.005	0.13	74.3
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.4	30.4	< 0.005	< 0.005	0.03	31.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.12	1.85	< 0.005	0.05	—	0.05	0.04	—	0.04	—	279	279	0.01	< 0.005	—	280
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.2	46.2	< 0.005	< 0.005	—	46.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.37	5.56	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,139	1,139	0.05	0.04	4.27	1,156
Vendor	0.02	0.60	0.28	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	450	450	0.02	0.06	1.17	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.41	4.87	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,075	1,075	0.06	0.04	0.11	1,089
Vendor	0.02	0.62	0.29	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.02	0.06	0.03	470
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.17	2.08	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	458	458	0.02	0.02	0.78	464
Vendor	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	190	190	0.01	0.03	0.21	199

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	75.8	75.8	< 0.005	< 0.005	0.13	76.9
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.5	31.5	< 0.005	< 0.005	0.04	32.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.12	1.85	< 0.005	0.05	—	0.05	0.04	—	0.04	—	279	279	0.01	< 0.005	—	280
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.2	46.2	< 0.005	< 0.005	—	46.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.37	5.56	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,139	1,139	0.05	0.04	4.27	1,156
Vendor	0.02	0.60	0.28	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	450	450	0.02	0.06	1.17	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.41	4.87	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	1,075	1,075	0.06	0.04	0.11	1,089
Vendor	0.02	0.62	0.29	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.02	0.06	0.03	470
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.17	2.08	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	458	458	0.02	0.02	0.78	464
Vendor	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	190	190	0.01	0.03	0.21	199
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	75.8	75.8	< 0.005	< 0.005	0.13	76.9
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.5	31.5	< 0.005	< 0.005	0.04	32.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.75	7.04	0.01	0.29	—	0.29	0.26	—	0.26	—	1,039	1,039	0.04	0.01	—	1,043
Paving	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	56.9	56.9	< 0.005	< 0.005	—	57.1
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.43	9.43	< 0.005	< 0.005	—	9.46
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.69	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	135	135	0.01	< 0.005	0.54	138
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.13	53.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	2.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.19
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.75	7.04	0.01	0.29	—	0.29	0.26	—	0.26	—	1,039	1,039	0.04	0.01	—	1,043
Paving	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.31	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	56.9	56.9	< 0.005	< 0.005	—	57.1
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.43	9.43	< 0.005	< 0.005	—	9.46
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.69	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	135	135	0.01	< 0.005	0.54	138
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.13	53.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.79	2.79	< 0.005	< 0.005	< 0.005	2.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.19
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.15	2.22	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	455	455	0.02	0.02	1.71	462
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.8	23.8	< 0.005	< 0.005	0.04	24.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.94	3.94	< 0.005	< 0.005	0.01	3.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.15	2.22	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	455	455	0.02	0.02	1.71	462
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.8	23.8	< 0.005	< 0.005	0.04	24.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.94	3.94	< 0.005	< 0.005	0.01	3.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	2.08	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	438	438	0.02	0.02	0.05	444
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.84	3.84	< 0.005	< 0.005	< 0.005	4.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectu Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	2.08	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	438	438	0.02	0.02	0.05	444
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.84	3.84	< 0.005	< 0.005	< 0.005	4.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.16	1.95	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	430	430	0.02	0.02	0.04	436
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	0.04	23.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	0.01	3.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.16	1.95	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	430	430	0.02	0.02	0.04	436
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	0.04	23.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	0.01	3.85
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15	—	864	864	0.04	0.01	—	867
Onsite truck	< 0.005	0.07	0.04	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29	—	14.2	14.2	< 0.005	< 0.005	0.02	14.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.0	71.0	< 0.005	< 0.005	—	71.3
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.49	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	96.8	96.8	< 0.005	< 0.005	0.39	98.3
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.13	53.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.58	7.58	< 0.005	< 0.005	0.01	7.69
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.37
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.25	1.25	< 0.005	< 0.005	< 0.005	1.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Trenching (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15	—	864	864	0.04	0.01	—	867

Onsite truck	< 0.005	0.07	0.04	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07	—	14.2	14.2	< 0.005	< 0.005	0.02	14.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.0	71.0	< 0.005	< 0.005	—	71.3
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.49	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	96.8	96.8	< 0.005	< 0.005	0.39	98.3
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.13	53.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.58	7.58	< 0.005	< 0.005	0.01	7.69
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	4.37
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.25	1.25	< 0.005	< 0.005	< 0.005	1.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.64	1.94	20.3	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	5,040	5,040	0.23	0.19	16.9	5,119

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.59	2.13	19.0	0.05	0.04	1.68	1.72	0.04	0.30	0.33	—	4,816	4,816	0.24	0.20	0.44	4,881
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.47	0.38	3.47	0.01	0.01	0.31	0.31	0.01	0.05	0.06	—	803	803	0.04	0.03	1.21	815

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	83.7	83.7	0.06	0.01	—	87.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	2.38	2.38	< 0.005	< 0.005	—	2.48
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	86.1	86.1	0.06	0.01	—	89.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	83.7	83.7	0.06	0.01	—	87.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	2.38	2.38	< 0.005	< 0.005	—	2.48
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	86.1	86.1	0.06	0.01	—	89.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	13.9	13.9	0.01	< 0.005	—	14.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39	< 0.005	< 0.005	—	0.41
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	14.2	14.2	0.01	< 0.005	—	14.9

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.03	< 0.005	—	43.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	2.38	2.38	< 0.005	< 0.005	—	2.48
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.03	< 0.005	—	46.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	41.8	41.8	0.03	< 0.005	—	43.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	2.38	2.38	< 0.005	< 0.005	—	2.48
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.03	< 0.005	—	46.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	6.93	6.93	0.01	< 0.005	—	7.24
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39	< 0.005	< 0.005	—	0.41

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.32	7.32	0.01	< 0.005	—	7.65

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.02	< 0.005	—	179
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.02	< 0.005	—	179

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.85	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	1,081	1,081	0.10	< 0.005	—	1,084
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.02	< 0.005	—	179
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.16	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.02	< 0.005	—	179

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.20	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Consumer Products	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.82	0.09	9.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.9	24.9	< 0.005	< 0.005	—	25.0
Total	9.26	2.88	47.2	0.14	5.46	—	5.46	5.27	—	5.27	891	2,807	3,698	4.22	0.01	—	3,805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.20	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Consumer Products	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.43	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.17	0.11	1.56	0.01	0.22	—	0.22	0.22	—	0.22	33.2	103	137	0.16	< 0.005	—	141
Consumer Products	0.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.01	0.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.03	2.03	< 0.005	< 0.005	—	2.04
Total	1.02	0.12	2.39	0.01	0.22	—	0.22	0.22	—	0.22	33.2	105	139	0.16	< 0.005	—	143

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.20	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Consumer Products	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.82	0.09	9.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.9	24.9	< 0.005	< 0.005	—	25.0
Total	9.26	2.88	47.2	0.14	5.46	—	5.46	5.27	—	5.27	891	2,807	3,698	4.22	0.01	—	3,805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.20	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Consumer Products	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.43	2.79	37.9	0.13	5.46	—	5.46	5.26	—	5.26	891	2,782	3,673	4.22	0.01	—	3,780
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.17	0.11	1.56	0.01	0.22	—	0.22	0.22	—	0.22	33.2	103	137	0.16	< 0.005	—	141
Consumer Products	0.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.01	0.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.03	2.03	< 0.005	< 0.005	—	2.04
Total	1.02	0.12	2.39	0.01	0.22	—	0.22	0.22	—	0.22	33.2	105	139	0.16	< 0.005	—	143

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.0	4.85	15.9	1.14	0.03	—	52.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	7.24	7.24	0.01	< 0.005	—	7.56
Total	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.0	4.85	15.9	1.14	0.03	—	52.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	7.24	7.24	0.01	< 0.005	—	7.56
Total	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.83	0.80	2.63	0.19	< 0.005	—	8.68
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	1.20	1.20	< 0.005	< 0.005	—	1.25
Total	—	—	—	—	—	—	—	—	—	—	1.83	2.00	3.83	0.19	< 0.005	—	9.93

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.0	4.85	15.9	1.14	0.03	—	52.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	7.24	7.24	0.01	< 0.005	—	7.56
Total	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.0	4.85	15.9	1.14	0.03	—	52.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	7.24	7.24	0.01	< 0.005	—	7.56
Total	—	—	—	—	—	—	—	—	—	—	11.0	12.1	23.1	1.14	0.03	—	60.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.83	0.80	2.63	0.19	< 0.005	—	8.68
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.00	1.20	1.20	< 0.005	< 0.005	—	1.25
Total	—	—	—	—	—	—	—	—	—	—	1.83	2.00	3.83	0.19	< 0.005	—	9.93

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	65.3	0.00	65.3	6.52	0.00	—	228
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.35	0.00	0.35	0.04	0.00	—	1.24
Total	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	65.3	0.00	65.3	6.52	0.00	—	228
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.35	0.00	0.35	0.04	0.00	—	1.24
Total	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	10.8	0.00	10.8	1.08	0.00	—	37.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	10.9	0.00	10.9	1.09	0.00	—	38.0

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	65.3	0.00	65.3	6.52	0.00	—	228
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.35	0.00	0.35	0.04	0.00	—	1.24
Total	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	65.3	0.00	65.3	6.52	0.00	—	228
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.35	0.00	0.35	0.04	0.00	—	1.24
Total	—	—	—	—	—	—	—	—	—	—	65.6	0.00	65.6	6.56	0.00	—	230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	10.8	0.00	10.8	1.08	0.00	—	37.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	10.9	0.00	10.9	1.09	0.00	—	38.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.25	1.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/8/2024	2/2/2024	5.00	20.0	—
Site Preparation	Site Preparation	2/5/2024	2/16/2024	5.00	10.0	—
Grading	Grading	2/19/2024	3/29/2024	5.00	30.0	—
Bld Con Ph 1 Homes	Building Construction	6/10/2024	12/30/2024	5.00	146	Phase 1 Homes (80 units)
Bld Con Ph 2 Homes	Building Construction	1/28/2025	8/29/2025	5.00	154	Phase 2 Homes (84 units)
Paving	Paving	5/13/2024	6/7/2024	5.00	20.0	—
Arch. Coat. Ph 2 Homes	Architectural Coating	9/1/2025	9/26/2025	5.00	20.0	—
Arch. Coat. Ph 1 Homes	Architectural Coating	12/31/2024	1/27/2025	5.00	20.0	Phase 1 Homes (80 units)
Utility Installation	Trenching	4/1/2024	5/10/2024	5.00	30.0	Utility Installation

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	0.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Bld Con Ph 1 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 1 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 1 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 1 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 1 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Arch. Coat. Ph 1 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Bld Con Ph 2 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 2 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 2 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 2 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 2 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Arch. Coat. Ph 2 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Utility Installation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Utility Installation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	0.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Bld Con Ph 1 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 1 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 1 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 1 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 1 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Arch. Coat. Ph 1 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Bld Con Ph 2 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 2 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 2 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29

Bld Con Ph 2 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 2 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Arch. Coat. Ph 2 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Utility Installation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Utility Installation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	8.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	7.63	HHDT,MHDT
Demolition	Hauling	124	20.0	HHDT
Demolition	Onsite truck	4.00	0.50	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	8.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	4.00	0.50	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	7.63	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	4.00	0.50	HHDT
Bld Con Ph 1 Homes	—	—	—	—

Bld Con Ph 1 Homes	Worker	120	12.0	LDA,LDT1,LDT2
Bld Con Ph 1 Homes	Vendor	18.0	7.63	HHDT,MHDT
Bld Con Ph 1 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 1 Homes	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	14.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	2.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 1 Homes	—	—	—	—
Arch. Coat. Ph 1 Homes	Worker	48.0	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 1 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 1 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 1 Homes	Onsite truck	0.00	—	HHDT
Bld Con Ph 2 Homes	—	—	—	—
Bld Con Ph 2 Homes	Worker	120	12.0	LDA,LDT1,LDT2
Bld Con Ph 2 Homes	Vendor	18.0	7.63	HHDT,MHDT
Bld Con Ph 2 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 2 Homes	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 2 Homes	—	—	—	—
Arch. Coat. Ph 2 Homes	Worker	48.0	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 2 Homes	Vendor	2.00	7.63	HHDT,MHDT
Arch. Coat. Ph 2 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 2 Homes	Onsite truck	0.00	—	HHDT
Utility Installation	—	—	—	—
Utility Installation	Worker	10.0	12.0	LDA,LDT1,LDT2
Utility Installation	Vendor	2.00	7.63	HHDT,MHDT

Utility Installation	Hauling	0.00	20.0	HHDT
Utility Installation	Onsite truck	4.00	0.50	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	8.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	7.63	HHDT,MHDT
Demolition	Hauling	124	20.0	HHDT
Demolition	Onsite truck	4.00	0.50	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	8.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	4.00	0.50	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	7.63	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	4.00	0.50	HHDT
Bld Con Ph 1 Homes	—	—	—	—
Bld Con Ph 1 Homes	Worker	120	12.0	LDA,LDT1,LDT2
Bld Con Ph 1 Homes	Vendor	18.0	7.63	HHDT,MHDT
Bld Con Ph 1 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 1 Homes	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	14.0	12.0	LDA,LDT1,LDT2

Paving	Vendor	2.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 1 Homes	—	—	—	—
Arch. Coat. Ph 1 Homes	Worker	48.0	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 1 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 1 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 1 Homes	Onsite truck	0.00	—	HHDT
Bld Con Ph 2 Homes	—	—	—	—
Bld Con Ph 2 Homes	Worker	120	12.0	LDA,LDT1,LDT2
Bld Con Ph 2 Homes	Vendor	18.0	7.63	HHDT,MHDT
Bld Con Ph 2 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 2 Homes	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 2 Homes	—	—	—	—
Arch. Coat. Ph 2 Homes	Worker	48.0	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 2 Homes	Vendor	2.00	7.63	HHDT,MHDT
Arch. Coat. Ph 2 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 2 Homes	Onsite truck	0.00	—	HHDT
Utility Installation	—	—	—	—
Utility Installation	Worker	10.0	12.0	LDA,LDT1,LDT2
Utility Installation	Vendor	2.00	7.63	HHDT,MHDT
Utility Installation	Hauling	0.00	20.0	HHDT
Utility Installation	Onsite truck	4.00	0.50	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Arch. Coat. Ph 1 Homes	182,783	60,928	0.00	0.00	3,927
Arch. Coat. Ph 2 Homes	169,243	56,414	0.00	0.00	3,636

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	213,000	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.89

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.50	100%
Other Asphalt Surfaces	2.39	100%
Condo/Townhouse	—	0%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	300	589	0.03	< 0.005
2025	539	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	640	640	640	233,600	6,107	6,107	6,107	2,229,020
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	640	640	640	233,600	6,107	6,107	6,107	2,229,020
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	64
Propane Fireplaces	0
Electric Fireplaces	8
No Fireplaces	8
Wood Fireplaces	0
Gas Fireplaces	68
Propane Fireplaces	0
Electric Fireplaces	8
No Fireplaces	8
Conventional Wood Stoves	0
Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0

Gas Fireplaces	64
Propane Fireplaces	0
Electric Fireplaces	8
No Fireplaces	8
Wood Fireplaces	0
Gas Fireplaces	68
Propane Fireplaces	0
Electric Fireplaces	8
No Fireplaces	8
Conventional Wood Stoves	0
Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	4
Non-Catalytic Wood Stoves	4
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
352026	117,342	0.00	0.00	7,564

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	346,866	45.1	0.0330	0.0040	1,727,438
Parking Lot	19,232	45.1	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Condo/Townhouse	330,348	45.1	0.0330	0.0040	1,645,179
City Park	0.00	45.1	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	173,433	45.1	0.0330	0.0040	1,727,438
Parking Lot	19,232	45.1	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Condo/Townhouse	165,174	45.1	0.0330	0.0040	1,645,179
City Park	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	2,951,178	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Condo/Townhouse	2,810,646	0.00
City Park	0.00	11,036,495

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	2,951,178	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Condo/Townhouse	2,810,646	0.00
City Park	0.00	11,036,495

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	22.3	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Condo/Townhouse	21.2	0.00
City Park	0.66	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	22.3	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Condo/Townhouse	21.2	0.00
City Park	0.66	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.56	annual days of extreme heat
Extreme Precipitation	3.75	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	30.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract

Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	38.6
AQ-DPM	12.2
Drinking Water	54.3
Lead Risk Housing	46.2
Pesticides	65.2
Toxic Releases	14.6
Traffic	41.8
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	0.00
Haz Waste Facilities/Generators	1.80
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	12.7
Cardio-vascular	19.7
Low Birth Weights	26.6
Socioeconomic Factor Indicators	—
Education	77.2
Housing	56.5
Linguistic	61.9
Poverty	73.0
Unemployment	60.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	37.4566919
Employed	22.3662261
Median HI	57.29500834
Education	—
Bachelor's or higher	35.78852817
High school enrollment	1.719491852
Preschool enrollment	15.83472347
Transportation	—
Auto Access	78.96830489
Active commuting	48.05594765
Social	—
2-parent households	57.3206724
Voting	55.24188374
Neighborhood	—
Alcohol availability	65.66149108
Park access	81.35506224
Retail density	17.28474272
Supermarket access	50.67368151
Tree canopy	42.28153471
Housing	—
Homeownership	52.99627871
Housing habitability	49.62145515
Low-inc homeowner severe housing cost burden	39.70229693
Low-inc renter severe housing cost burden	37.17438727
Uncrowded housing	36.04516874

Health Outcomes	—
Insured adults	30.39907609
Arthritis	51.7
Asthma ER Admissions	63.1
High Blood Pressure	71.3
Cancer (excluding skin)	63.4
Asthma	30.0
Coronary Heart Disease	47.4
Chronic Obstructive Pulmonary Disease	31.1
Diagnosed Diabetes	35.6
Life Expectancy at Birth	59.6
Cognitively Disabled	91.4
Physically Disabled	67.1
Heart Attack ER Admissions	63.2
Mental Health Not Good	27.0
Chronic Kidney Disease	35.4
Obesity	36.0
Pedestrian Injuries	41.3
Physical Health Not Good	35.1
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	24.0
Current Smoker	28.0
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	12.4
Elderly	76.6
English Speaking	34.6
Foreign-born	63.7
Outdoor Workers	25.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	47.0
Traffic Density	45.5
Traffic Access	60.9
Other Indices	—
Hardship	65.9
Other Decision Support	—
2016 Voting	65.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	33.0
Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Project schedule
Construction: Off-Road Equipment	CalEEmod defaults with some applicant provided schedule and equipment adjustments.
Construction: Trips and VMT	Assumed an even number of trips.
Operations: Vehicle Data	Res trip gen based on transportation study. Landscape/open space modeled as "City Park" for on-site residents.
Operations: Refrigerants	Landscape/open space modeled as City Park, no refrigerants.
Operations: Hearths	Assumed 80% of fireplaces would be natural gas, with 10% electric and 10% no fireplace.
Construction: Dust From Material Movement	Balanced on-site

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5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oceanside Pacifica - HRA v1 Mitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.90
Precipitation (days)	12.0
Location	33.25670785622732, -117.30359434657936
County	San Diego
City	Oceanside
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6244
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	84.0	Dwelling Unit	1.64	89,040	0.00	0.00	234	—
Parking Lot	56.0	Space	0.50	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	2.39	Acre	2.39	0.00	0.00	0.00	—	—

Condo/Townhouse	80.0	Dwelling Unit	1.57	84,800	0.00	0.00	223	—
City Park	7.63	Acre	7.63	0.00	332,332	332,332	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads
Energy	E-10-A	Establish Onsite Renewable Energy Systems: Generic

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	27.0	5.77	7.05	0.01	0.29	2.85	3.01	0.26	0.29	0.44
Mit.	27.0	5.77	7.05	0.01	0.29	0.72	0.88	0.26	0.07	0.26
% Reduced	—	—	—	—	—	75%	71%	—	75%	39%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	29.2	39.7	32.4	0.07	1.65	13.3	14.8	1.52	4.05	5.58

Mit.	29.2	21.9	40.3	0.07	0.37	7.40	7.50	0.36	1.54	1.90
% Reduced	—	45%	-24%	—	77%	44%	49%	77%	62%	66%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.14	6.34	6.39	0.01	0.27	2.30	2.56	0.24	0.56	0.80
Mit.	3.14	4.29	6.90	0.01	0.13	0.94	1.07	0.12	0.23	0.35
% Reduced	—	32%	-8%	—	53%	59%	58%	53%	59%	57%
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	1.16	1.17	< 0.005	0.05	0.42	0.47	0.04	0.10	0.15
Mit.	0.57	0.78	1.26	< 0.005	0.02	0.17	0.20	0.02	0.04	0.06
% Reduced	—	32%	-8%	—	53%	59%	58%	53%	59%	57%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	360	—	—	100	—	—	55.0
Unmit.	No	No	No	No	—	—	No	—	—	No
Mit.	No	No	No	No	—	—	No	—	—	No
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	250	550	360	—	—	100	—	—	55.0
Unmit.	No	No	No	No	—	—	No	—	—	No
Mit.	No	No	No	No	—	—	No	—	—	No

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2024	1.10	5.77	7.05	0.01	0.29	2.85	3.01	0.26	0.29	0.44
2025	27.0	2.86	4.52	0.01	0.11	< 0.005	0.12	0.10	< 0.005	0.11

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	29.2	39.7	32.4	0.07	1.65	13.3	14.8	1.52	4.05	5.58
2025	29.2	2.87	4.53	0.01	0.11	< 0.005	0.12	0.10	< 0.005	0.11
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.72	6.34	6.39	0.01	0.27	2.30	2.56	0.24	0.56	0.80
2025	3.14	1.21	1.91	< 0.005	0.05	< 0.005	0.05	0.04	< 0.005	0.04
Annual	—	—	—	—	—	—	—	—	—	—
2024	0.13	1.16	1.17	< 0.005	0.05	0.42	0.47	0.04	0.10	0.15
2025	0.57	0.22	0.35	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2024	1.10	5.77	7.05	0.01	0.29	0.72	0.88	0.26	0.07	0.26
2025	27.0	2.86	4.52	0.01	0.11	< 0.005	0.12	0.10	< 0.005	0.11
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	29.2	21.9	40.3	0.07	0.37	7.40	7.50	0.36	1.54	1.90
2025	29.2	2.87	4.53	0.01	0.11	< 0.005	0.12	0.10	< 0.005	0.11
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.42	4.29	6.90	0.01	0.13	0.94	1.07	0.12	0.23	0.35
2025	3.14	1.21	1.91	< 0.005	0.05	< 0.005	0.05	0.04	< 0.005	0.04
Annual	—	—	—	—	—	—	—	—	—	—
2024	0.08	0.78	1.26	< 0.005	0.02	0.17	0.20	0.02	0.04	0.06
2025	0.57	0.22	0.35	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	12.8	11.3	0.02	0.54	—	0.54	0.50	—	0.50
Demolition	—	—	—	—	—	10.4	10.4	—	1.57	1.57
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.70	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03
Demolition	—	—	—	—	—	0.57	0.57	—	0.09	0.09
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005
Demolition	—	—	—	—	—	0.10	0.10	—	0.02	0.02
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.08	2.09	1.39	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	5.78	9.61	0.02	0.10	—	0.10	0.10	—	0.10
Demolition	—	—	—	—	—	6.65	6.65	—	1.01	1.01
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.32	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01
Demolition	—	—	—	—	—	0.36	0.36	—	0.06	0.06
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Demolition	—	—	—	—	—	0.07	0.07	—	0.01	0.01
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.08	2.09	1.39	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	12.8	12.3	0.02	0.57	—	0.57	0.52	—	0.52
Dust From Material Movement	—	—	—	—	—	6.55	6.55	—	3.37	3.37
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.35	0.34	< 0.005	0.02	—	0.02	0.01	—	0.01
Dust From Material Movement	—	—	—	—	—	0.18	0.18	—	0.09	0.09
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.02	0.02
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	5.74	10.6	0.02	0.13	—	0.13	0.12	—	0.12
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.02	39.6	32.4	0.07	1.65	—	1.65	1.52	—	1.52
Dust From Material Movement	—	—	—	—	—	10.3	10.3	—	3.77	3.77
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.26	2.66	0.01	0.14	—	0.14	0.13	—	0.13
Dust From Material Movement	—	—	—	—	—	0.84	0.84	—	0.31	0.31
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.59	0.49	< 0.005	0.02	—	0.02	0.02	—	0.02
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	21.8	40.2	0.07	0.37	—	0.37	0.36	—	0.36
Dust From Material Movement	—	—	—	—	—	4.00	4.00	—	1.47	1.47
Onsite truck	< 0.005	0.07	0.05	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.79	3.31	0.01	0.03	—	0.03	0.03	—	0.03
Dust From Material Movement	—	—	—	—	—	0.33	0.33	—	0.12	0.12
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.33	0.60	< 0.005	0.01	—	0.01	0.01	—	0.01
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.02	0.02
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.16	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.20	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.90	4.40	0.01	0.14	—	0.14	0.13	—	0.13
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.16	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.20	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.12	1.85	< 0.005	0.05	—	0.05	0.04	—	0.04
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.20	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.67	4.38	0.01	0.11	—	0.11	0.10	—	0.10
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.12	1.85	< 0.005	0.05	—	0.05	0.04	—	0.04
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.20	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.75	7.04	0.01	0.29	—	0.29	0.26	—	0.26
Paving	0.38	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.31	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01
Paving	0.02	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Paving	< 0.005	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T

Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	5.75	7.04	0.01	0.29	—	0.29	0.26	—	0.26
Paving	0.38	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.31	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01
Paving	0.02	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Paving	< 0.005	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	1.54	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	0.28	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	29.2	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00
Architectural Coatings	1.54	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00

Architectural Coatings	0.28	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15
Onsite truck	< 0.005	0.07	0.04	< 0.005	< 0.005	2.85	2.85	< 0.005	0.28	0.29

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Trenching (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.09	5.86	0.01	0.16	—	0.16	0.15	—	0.15
Onsite truck	< 0.005	0.07	0.04	< 0.005	< 0.005	0.72	0.72	< 0.005	0.07	0.07
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/8/2024	2/2/2024	5.00	20.0	—
Site Preparation	Site Preparation	2/5/2024	2/16/2024	5.00	10.0	—
Grading	Grading	2/19/2024	3/29/2024	5.00	30.0	—
Bld Con Ph 1 Homes	Building Construction	6/10/2024	12/30/2024	5.00	146	Phase 1 Homes (80 units)
Bld Con Ph 2 Homes	Building Construction	1/28/2025	8/29/2025	5.00	154	Phase 2 Homes (84 units)
Paving	Paving	5/13/2024	6/7/2024	5.00	20.0	—
Arch. Coat. Ph 2 Homes	Architectural Coating	9/1/2025	9/26/2025	5.00	20.0	—
Arch. Coat. Ph 1 Homes	Architectural Coating	12/31/2024	1/27/2025	5.00	20.0	Phase 1 Homes (80 units)
Utility Installation	Trenching	4/1/2024	5/10/2024	5.00	30.0	Utility Installation

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	0.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Bld Con Ph 1 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 1 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 1 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 1 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 1 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Arch. Coat. Ph 1 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Bld Con Ph 2 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 2 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 2 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 2 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 2 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Arch. Coat. Ph 2 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Utility Installation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Utility Installation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	0.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Bld Con Ph 1 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 1 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 1 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 1 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 1 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Arch. Coat. Ph 1 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Grading	Scrapers	Diesel	Tier 4 Interim	3.00	8.00	423	0.48
Bld Con Ph 2 Homes	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Bld Con Ph 2 Homes	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bld Con Ph 2 Homes	Cranes	Diesel	Average	0.00	7.00	367	0.29
Bld Con Ph 2 Homes	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Bld Con Ph 2 Homes	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37

Arch. Coat. Ph 2 Homes	Air Compressors	Electric	Average	3.00	6.00	37.0	0.48
Utility Installation	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Utility Installation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	0.25	HHDT,MHDT
Demolition	Hauling	124	0.25	HHDT
Demolition	Onsite truck	4.00	0.50	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	4.00	0.50	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.25	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	4.00	0.50	HHDT
Bld Con Ph 1 Homes	—	—	—	—
Bld Con Ph 1 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Bld Con Ph 1 Homes	Vendor	18.0	0.25	HHDT,MHDT
Bld Con Ph 1 Homes	Hauling	0.00	0.25	HHDT

Bld Con Ph 1 Homes	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 1 Homes	—	—	—	—
Arch. Coat. Ph 1 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 1 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 1 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 1 Homes	Onsite truck	0.00	—	HHDT
Bld Con Ph 2 Homes	—	—	—	—
Bld Con Ph 2 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Bld Con Ph 2 Homes	Vendor	18.0	0.25	HHDT,MHDT
Bld Con Ph 2 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 2 Homes	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 2 Homes	—	—	—	—
Arch. Coat. Ph 2 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 2 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 2 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 2 Homes	Onsite truck	0.00	—	HHDT
Utility Installation	—	—	—	—
Utility Installation	Worker	0.00	12.0	LDA,LDT1,LDT2
Utility Installation	Vendor	2.00	0.25	HHDT,MHDT
Utility Installation	Hauling	0.00	20.0	HHDT
Utility Installation	Onsite truck	4.00	0.50	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	0.25	HHDT,MHDT
Demolition	Hauling	124	0.25	HHDT
Demolition	Onsite truck	4.00	0.50	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	4.00	0.50	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.25	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	4.00	0.50	HHDT
Bld Con Ph 1 Homes	—	—	—	—
Bld Con Ph 1 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Bld Con Ph 1 Homes	Vendor	18.0	0.25	HHDT,MHDT
Bld Con Ph 1 Homes	Hauling	0.00	0.25	HHDT
Bld Con Ph 1 Homes	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT

Arch. Coat. Ph 1 Homes	—	—	—	—
Arch. Coat. Ph 1 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 1 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 1 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 1 Homes	Onsite truck	0.00	—	HHDT
Bld Con Ph 2 Homes	—	—	—	—
Bld Con Ph 2 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Bld Con Ph 2 Homes	Vendor	18.0	0.25	HHDT,MHDT
Bld Con Ph 2 Homes	Hauling	0.00	20.0	HHDT
Bld Con Ph 2 Homes	Onsite truck	0.00	—	HHDT
Arch. Coat. Ph 2 Homes	—	—	—	—
Arch. Coat. Ph 2 Homes	Worker	0.00	12.0	LDA,LDT1,LDT2
Arch. Coat. Ph 2 Homes	Vendor	2.00	0.25	HHDT,MHDT
Arch. Coat. Ph 2 Homes	Hauling	0.00	20.0	HHDT
Arch. Coat. Ph 2 Homes	Onsite truck	0.00	—	HHDT
Utility Installation	—	—	—	—
Utility Installation	Worker	0.00	12.0	LDA,LDT1,LDT2
Utility Installation	Vendor	2.00	0.25	HHDT,MHDT
Utility Installation	Hauling	0.00	20.0	HHDT
Utility Installation	Onsite truck	4.00	0.50	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Arch. Coat. Ph 1 Homes	182,783	60,928	0.00	0.00	3,927
Arch. Coat. Ph 2 Homes	169,243	56,414	0.00	0.00	3,636

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	213,000	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.89

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Parking Lot	0.50	100%
Other Asphalt Surfaces	2.39	100%
Condo/Townhouse	—	0%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	300	589	0.03	< 0.005
2025	539	589	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.56	annual days of extreme heat
Extreme Precipitation	3.75	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	30.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	38.6
AQ-DPM	12.2
Drinking Water	54.3
Lead Risk Housing	46.2
Pesticides	65.2
Toxic Releases	14.6
Traffic	41.8
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	0.00
Haz Waste Facilities/Generators	1.80
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	12.7
Cardio-vascular	19.7
Low Birth Weights	26.6
Socioeconomic Factor Indicators	—
Education	77.2
Housing	56.5
Linguistic	61.9
Poverty	73.0

Unemployment	60.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	37.4566919
Employed	22.3662261
Median HI	57.29500834
Education	—
Bachelor's or higher	35.78852817
High school enrollment	1.719491852
Preschool enrollment	15.83472347
Transportation	—
Auto Access	78.96830489
Active commuting	48.05594765
Social	—
2-parent households	57.3206724
Voting	55.24188374
Neighborhood	—
Alcohol availability	65.66149108
Park access	81.35506224
Retail density	17.28474272
Supermarket access	50.67368151
Tree canopy	42.28153471
Housing	—
Homeownership	52.99627871

Housing habitability	49.62145515
Low-inc homeowner severe housing cost burden	39.70229693
Low-inc renter severe housing cost burden	37.17438727
Uncrowded housing	36.04516874
Health Outcomes	—
Insured adults	30.39907609
Arthritis	51.7
Asthma ER Admissions	63.1
High Blood Pressure	71.3
Cancer (excluding skin)	63.4
Asthma	30.0
Coronary Heart Disease	47.4
Chronic Obstructive Pulmonary Disease	31.1
Diagnosed Diabetes	35.6
Life Expectancy at Birth	59.6
Cognitively Disabled	91.4
Physically Disabled	67.1
Heart Attack ER Admissions	63.2
Mental Health Not Good	27.0
Chronic Kidney Disease	35.4
Obesity	36.0
Pedestrian Injuries	41.3
Physical Health Not Good	35.1
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	24.0
Current Smoker	28.0

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	12.4
Elderly	76.6
English Speaking	34.6
Foreign-born	63.7
Outdoor Workers	25.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	47.0
Traffic Density	45.5
Traffic Access	60.9
Other Indices	—
Hardship	65.9
Other Decision Support	—
2016 Voting	65.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	33.0
Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Project schedule
Construction: Off-Road Equipment	CalEEmod defaults with some applicant provided schedule and equipment adjustments.
Construction: Trips and VMT	Trip length reduced to 0.5 miles for trucks for HRA to estimate on-site emissions. Worker trips zeroed out because not diesel vehicles.
Operations: Vehicle Data	Res trip gen based on transportation study. Landscape/open space modeled as "City Park" for on-site residents.
Operations: Refrigerants	Landscape/open space modeled as City Park, no refrigerants.
Operations: Hearths	Assumed 80% of fireplaces would be natural gas, with 10% electric and 10% no fireplace.
Construction: Dust From Material Movement	Balanced on-site

Oceanside Pacifica - Existing General Plan Land Use Designations Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oceanside Pacifica - Existing General Plan Land Use Designations
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.90
Precipitation (days)	12.0
Location	33.25663179221928, -117.30365726444896
County	San Diego
City	Oceanside
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6244
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Government Office Building	150	1000sqft	3.44	150,000	0.00	0.00	—	—
High School	1,000	Student	3.05	132,661	0.00	0.00	—	—
Hospital	100	Bed	1.64	71,576	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	414	54,199	54,612	44.8	2.21	167	56,558
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	414	51,935	52,349	45.0	2.32	5.30	54,171
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	414	41,757	42,170	44.4	1.86	56.9	43,890
Annual (Max)	—	—	—	—	—	—	—
Unmit.	68.5	6,913	6,982	7.35	0.31	9.42	7,267

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	—	49,681	49,681	2.40	1.93	166	50,484
Area	—	63.4	63.4	< 0.005	0.01	—	65.2
Energy	—	4,418	4,418	0.82	0.07	—	4,458
Water	82.8	36.3	119	8.51	0.20	—	393
Waste	331	0.00	331	33.1	0.00	—	1,158
Refrig.	—	—	—	—	—	0.99	0.99

Total	414	54,199	54,612	44.8	2.21	167	56,558
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	—	47,481	47,481	2.57	2.05	4.31	48,161
Area	—	—	—	—	—	—	—
Energy	—	4,418	4,418	0.82	0.07	—	4,458
Water	82.8	36.3	119	8.51	0.20	—	393
Waste	331	0.00	331	33.1	0.00	—	1,158
Refrig.	—	—	—	—	—	0.99	0.99
Total	414	51,935	52,349	45.0	2.32	5.30	54,171
Average Daily	—	—	—	—	—	—	—
Mobile	—	37,272	37,272	1.97	1.58	55.9	37,848
Area	—	31.2	31.2	< 0.005	< 0.005	—	32.2
Energy	—	4,418	4,418	0.82	0.07	—	4,458
Water	82.8	36.3	119	8.51	0.20	—	393
Waste	331	0.00	331	33.1	0.00	—	1,158
Refrig.	—	—	—	—	—	0.99	0.99
Total	414	41,757	42,170	44.4	1.86	56.9	43,890
Annual	—	—	—	—	—	—	—
Mobile	—	6,171	6,171	0.33	0.26	9.26	6,266
Area	—	5.17	5.17	< 0.005	< 0.005	—	5.32
Energy	—	731	731	0.14	0.01	—	738
Water	13.7	6.01	19.7	1.41	0.03	—	65.1
Waste	54.8	0.00	54.8	5.48	0.00	—	192
Refrig.	—	—	—	—	—	0.16	0.16
Total	68.5	6,913	6,982	7.35	0.31	9.42	7,267

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	—	22,004	22,004	1.07	0.86	73.6	22,360
High School	—	13,183	13,183	0.64	0.51	44.1	13,395
Hospital	—	14,494	14,494	0.70	0.56	48.5	14,728
Total	—	49,681	49,681	2.40	1.93	166	50,484
Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	—	21,030	21,030	1.14	0.91	1.91	21,331
High School	—	12,599	12,599	0.68	0.54	1.14	12,779
Hospital	—	13,852	13,852	0.75	0.60	1.26	14,051
Total	—	47,481	47,481	2.57	2.05	4.31	48,161
Annual	—	—	—	—	—	—	—
Government Office Building	—	2,504	2,504	0.13	0.11	3.76	2,543
High School	—	1,623	1,623	0.09	0.07	2.43	1,648
Hospital	—	2,043	2,043	0.11	0.09	3.07	2,075
Total	—	6,171	6,171	0.33	0.26	9.26	6,266

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	—	308	308	0.23	0.03	—	321
High School	—	111	111	0.08	0.01	—	116
Hospital	—	250	250	0.18	0.02	—	261
Total	—	668	668	0.49	0.06	—	698
Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	—	308	308	0.23	0.03	—	321
High School	—	111	111	0.08	0.01	—	116
Hospital	—	250	250	0.18	0.02	—	261
Total	—	668	668	0.49	0.06	—	698
Annual	—	—	—	—	—	—	—
Government Office Building	—	50.9	50.9	0.04	< 0.005	—	53.2
High School	—	18.3	18.3	0.01	< 0.005	—	19.1
Hospital	—	41.4	41.4	0.03	< 0.005	—	43.2
Total	—	111	111	0.08	0.01	—	116

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	—	1,539	1,539	0.14	< 0.005	—	1,544
High School	—	670	670	0.06	< 0.005	—	671
Hospital	—	1,541	1,541	0.14	< 0.005	—	1,545
Total	—	3,750	3,750	0.33	0.01	—	3,760

Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	—	1,539	1,539	0.14	< 0.005	—	1,544
High School	—	670	670	0.06	< 0.005	—	671
Hospital	—	1,541	1,541	0.14	< 0.005	—	1,545
Total	—	3,750	3,750	0.33	0.01	—	3,760
Annual	—	—	—	—	—	—	—
Government Office Building	—	255	255	0.02	< 0.005	—	256
High School	—	111	111	0.01	< 0.005	—	111
Hospital	—	255	255	0.02	< 0.005	—	256
Total	—	621	621	0.05	< 0.005	—	623

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	63.4	63.4	< 0.005	0.01	—	65.2
Total	—	63.4	63.4	< 0.005	0.01	—	65.2
Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—

Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	5.17	5.17	< 0.005	< 0.005	—	5.32
Total	—	5.17	5.17	< 0.005	< 0.005	—	5.32

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	57.1	25.1	82.2	5.87	0.14	—	271
High School	8.44	3.71	12.1	0.87	0.02	—	40.1
Hospital	17.2	7.55	24.8	1.77	0.04	—	81.7
Total	82.8	36.3	119	8.51	0.20	—	393
Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	57.1	25.1	82.2	5.87	0.14	—	271
High School	8.44	3.71	12.1	0.87	0.02	—	40.1
Hospital	17.2	7.55	24.8	1.77	0.04	—	81.7
Total	82.8	36.3	119	8.51	0.20	—	393
Annual	—	—	—	—	—	—	—
Government Office Building	9.45	4.15	13.6	0.97	0.02	—	44.9
High School	1.40	0.61	2.01	0.14	< 0.005	—	6.64
Hospital	2.85	1.25	4.10	0.29	0.01	—	13.5
Total	13.7	6.01	19.7	1.41	0.03	—	65.1

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	75.2	0.00	75.2	7.51	0.00	—	263
High School	98.4	0.00	98.4	9.83	0.00	—	344
Hospital	157	0.00	157	15.7	0.00	—	551
Total	331	0.00	331	33.1	0.00	—	1,158
Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	75.2	0.00	75.2	7.51	0.00	—	263
High School	98.4	0.00	98.4	9.83	0.00	—	344
Hospital	157	0.00	157	15.7	0.00	—	551
Total	331	0.00	331	33.1	0.00	—	1,158
Annual	—	—	—	—	—	—	—
Government Office Building	12.4	0.00	12.4	1.24	0.00	—	43.5
High School	16.3	0.00	16.3	1.63	0.00	—	57.0
Hospital	26.1	0.00	26.1	2.60	0.00	—	91.2
Total	54.8	0.00	54.8	5.48	0.00	—	192

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	0.36	0.36
High School	—	—	—	—	—	0.51	0.51
Hospital	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	0.99	0.99
Daily, Winter (Max)	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	0.36	0.36
High School	—	—	—	—	—	0.51	0.51
Hospital	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	0.99	0.99
Annual	—	—	—	—	—	—	—
Government Office Building	—	—	—	—	—	0.06	0.06
High School	—	—	—	—	—	0.08	0.08
Hospital	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	0.16	0.16

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Government Office Building	3,389	0.00	0.00	883,430	26,536	0.00	0.00	6,918,419
High School	2,030	580	250	572,529	15,898	4,542	1,958	4,483,650
Hospital	2,232	1,376	1,288	720,823	17,479	10,776	10,087	5,644,989

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	531,356	177,119	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)

Government Office Building	2,489,185	45.1	0.0330	0.0040	4,803,454
High School	894,923	45.1	0.0330	0.0040	2,089,318
Hospital	2,022,172	45.1	0.0330	0.0040	4,807,059

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Government Office Building	29,798,953	0.00
High School	4,404,960	0.00
Hospital	8,981,365	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Government Office Building	140	0.00
High School	183	0.00
Hospital	292	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Hospital	Chillers	R-134a	1,430	< 0.005	2.00	2.00	23.0
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.56	annual days of extreme heat

Extreme Precipitation	3.75	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	30.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	38.6
AQ-DPM	12.2
Drinking Water	54.3
Lead Risk Housing	46.2
Pesticides	65.2

Toxic Releases	14.6
Traffic	41.8
Effect Indicators	—
CleanUp Sites	46.1
Groundwater	0.00
Haz Waste Facilities/Generators	1.80
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	12.7
Cardio-vascular	19.7
Low Birth Weights	26.6
Socioeconomic Factor Indicators	—
Education	77.2
Housing	56.5
Linguistic	61.9
Poverty	73.0
Unemployment	60.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	37.4566919
Employed	22.3662261
Median HI	57.29500834
Education	—

Bachelor's or higher	35.78852817
High school enrollment	1.719491852
Preschool enrollment	15.83472347
Transportation	—
Auto Access	78.96830489
Active commuting	48.05594765
Social	—
2-parent households	57.3206724
Voting	55.24188374
Neighborhood	—
Alcohol availability	65.66149108
Park access	81.35506224
Retail density	17.28474272
Supermarket access	50.67368151
Tree canopy	42.28153471
Housing	—
Homeownership	52.99627871
Housing habitability	49.62145515
Low-inc homeowner severe housing cost burden	39.70229693
Low-inc renter severe housing cost burden	37.17438727
Uncrowded housing	36.04516874
Health Outcomes	—
Insured adults	30.39907609
Arthritis	51.7
Asthma ER Admissions	63.1
High Blood Pressure	71.3
Cancer (excluding skin)	63.4

Asthma	30.0
Coronary Heart Disease	47.4
Chronic Obstructive Pulmonary Disease	31.1
Diagnosed Diabetes	35.6
Life Expectancy at Birth	59.6
Cognitively Disabled	91.4
Physically Disabled	67.1
Heart Attack ER Admissions	63.2
Mental Health Not Good	27.0
Chronic Kidney Disease	35.4
Obesity	36.0
Pedestrian Injuries	41.3
Physical Health Not Good	35.1
Stroke	39.4
Health Risk Behaviors	—
Binge Drinking	24.0
Current Smoker	28.0
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	12.4
Elderly	76.6
English Speaking	34.6
Foreign-born	63.7
Outdoor Workers	25.4
Climate Change Adaptive Capacity	—

Impervious Surface Cover	47.0
Traffic Density	45.5
Traffic Access	60.9
Other Indices	—
Hardship	65.9
Other Decision Support	—
2016 Voting	65.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	33.0
Healthy Places Index Score for Project Location (b)	28.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Appendix B

Health Risk Assessment Output File

Oceanside Pacifica
Construction HRA - Off-site

Project Construction Emissions

Year	Unmitigated DPM tons/year	Mitigated DPM tons/year
2024	0.0500	0.0200
2025	0.0100	0.0100
Total	**0.060**	**0.030**
Total Lbs	**120.000**	**60.000**
Lbs/year	**69.867**	**34.933**
Lbs/hour	**0.03**	**0.02**
Cancer Risk	**18.12**	**9.06** in a million

Conversions:

1 ton =	2,000	lb			
Construction =	8	hours/day	Project Construction:	450	active days
	2096	hours/year		1.72	years
	262	days/year			
	12	months			

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m	
SLINE1	Off-Road Equipment and Trucks	95	1.00	5.00	10.00	10.00	add trucks to this

Receptor Grid

Grid Sizes	Spacing	Flagpole Heights
1 km x 1 km	20 m	Grids at 0m, 5m, 10m, 15m, 20m, 25m, 30m, 35m

Meteorological Data

Station Name		Years	Lat	Long	Elev (m)
CRQ	McClellan-Palomar Airport	2019-2021	33.130822	-117.272686	92

Source: SDAPCD - https://www.sdapcd.org/content/sdapcd/air-quality/reports-and-plans.html

Population

County	2021 Population
San Diego County	3,287,306

Source: State of California, Department of Finance. https://dof.ca.gov/forecasting/demographics/estimates-e1/

Other Model Assumption

Terrain Data	NED 1
Lakes Version	10.2.1
AERMOD Versio	21112

Oceanside Pacifica
Construction HRA - on-site

Project Construction Emissions

Year	Unmitigated DPM tons/year	Adjusted for Indoor Exposure DPM tons/year
2025	0.0100	0.0030
Total	**0.010**	**0.003**
Total Lbs	**20.000**	**6.080**
Lbs/year	**30.115**	**9.155**
Lbs/hour	**0.01**	**0.004368**
Cancer Risk		**2.57** in a million

Conversions:
1 ton = 2,000 lb

Construction = 8 hours/day
2096 hours/year
262 days/year
12 months

Project Construction: 174 active days
0.66 years

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m
SLINE1	Off-Road Equipment and Trucks	95	1.00	5.00	10.00	**10.0**

Receptor Grid

Grid Sizes	Spacing	Flagpole Heights
1 km x 1 km	20 m	Grids at 0m, 5m, 10m, 15m, 20m, 25m, 30m, 35m

Meteorological Data

Station Name		Years	Lat	Long	Elev (m)
CRQ	McClellan-Palomar Airport	2019-2021	33.130822	-117.272686	92

Source: SDAPCD 2020. Annual Air Quality Monitoring Network. https://www.sdapcd.org/content/dam/sdapcd/documents/monitoring/2020-Network-Report.pdf

Population

County	2021 Population
San Diego County	3,287,306

Source: SDAPCD - https://www.sdapcd.org/content/sdapcd/air-quality/reports-and-plans.html

Other Model Assumption

Terrain Data	NED 1
Lakes Version	10.2.1
AERMOD Versio	21112

Adjusted indoor exposure assumes the following:
% Reduction Assumed
87% % Time Indoors
80% % MERV13 PM10 Reduction
69.60% Total Reduction

```
**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/23/2022
** File: C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica-OnsiteRec\Oceanside-Pacifica-OnsiteRec.AD
I
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** AERMOD Control Pathway
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**
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   AVERTIME 1 PERIOD
   URBANOPT 3287306 SD_County_Population_2021
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Oceanside-Pacifica-OnsiteRec.err
CO FINISHED
**
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** AERMOD Source Pathway
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**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Offroad Equipment and Trucks
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 44
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   LOCATION L0000005     VOLUME   471648.389 3679703.580 30.15
   LOCATION L0000006     VOLUME   471657.765 3679707.056 30.11
   LOCATION L0000007     VOLUME   471667.142 3679710.531 30.05
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LOCATION L0000011     VOLUME   471704.648 3679724.434 30.11
LOCATION L0000012     VOLUME   471714.024 3679727.910 30.30
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LOCATION L0000014     VOLUME   471732.777 3679734.862 30.85
LOCATION L0000015     VOLUME   471742.154 3679738.338 30.81
LOCATION L0000016     VOLUME   471751.530 3679741.813 30.74
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LOCATION L0000018     VOLUME   471755.243 3679755.221 30.82
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LOCATION L0000022     VOLUME   471767.881 3679778.927 31.00
LOCATION L0000023     VOLUME   471777.423 3679781.918 31.09
LOCATION L0000024     VOLUME   471786.966 3679784.908 31.26
LOCATION L0000025     VOLUME   471792.281 3679782.548 31.59
LOCATION L0000026     VOLUME   471782.719 3679779.622 31.16
LOCATION L0000027     VOLUME   471773.156 3679776.696 31.07
LOCATION L0000028     VOLUME   471763.594 3679773.770 30.97
LOCATION L0000029     VOLUME   471754.031 3679770.845 30.93
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LOCATION L0000032     VOLUME   471778.149 3679772.688 31.16
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LOCATION L0000036     VOLUME   471779.086 3679767.368 31.22
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LOCATION L0000040     VOLUME   471772.652 3679759.056 31.40
LOCATION L0000041     VOLUME   471782.139 3679762.218 31.59
LOCATION L0000042     VOLUME   471791.626 3679765.380 31.71
LOCATION L0000043     VOLUME   471798.703 3679764.287 32.18
LOCATION L0000044     VOLUME   471791.570 3679760.111 32.34
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LOCATION L0000046     VOLUME   471772.298 3679754.767 31.54
LOCATION L0000047     VOLUME   471764.727 3679750.982 31.15
LOCATION L0000048     VOLUME   471765.235 3679742.696 31.27
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LOCATION L0000050     VOLUME   471746.537 3679735.598 30.76
LOCATION L0000051     VOLUME   471737.188 3679732.049 30.78
LOCATION L0000052     VOLUME   471727.839 3679728.499 30.57
LOCATION L0000053     VOLUME   471718.490 3679724.950 30.31
LOCATION L0000054     VOLUME   471709.141 3679721.401 30.08
LOCATION L0000055     VOLUME   471699.792 3679717.852 29.99
LOCATION L0000056     VOLUME   471690.443 3679714.303 29.93
LOCATION L0000057     VOLUME   471681.094 3679710.754 29.89
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LOCATION L0000248 VOLUME 471670.527 3679632.758 30.21
LOCATION L0000249 VOLUME 471679.892 3679636.265 30.14
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LOCATION L0000252 VOLUME 471707.986 3679646.788 30.28
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LOCATION L0000257 VOLUME 471718.259 3679644.900 31.75

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   LOCATION L0000260     VOLUME   471690.504 3679633.513 31.11
   LOCATION L0000261     VOLUME   471681.252 3679629.718 30.98
   LOCATION L0000262     VOLUME   471672.000 3679625.922 30.87
   LOCATION L0000263     VOLUME   471662.748 3679622.127 30.50
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** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
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   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Oceanside-Pacifica-OnsiteRec.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
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   PROFFILE ..\McClellanPalomar_2019_2021_v22112.PFL
   SURFDATA 3177 2019
   UAIRDATA 3190 2019
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   PROFBASE 92.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
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   RECTABLE 1 1ST
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   PLOTFILE PERIOD ALL Oceanside-Pacifica-OnsiteRec.AD\PE00GALL.PLT 32
   SUMMFILE Oceanside-Pacifica-OnsiteRec.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     650       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     650       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:29:36

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
```

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 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   265 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   3287306.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    265 Source(s);       1 Source Group(s); and     142
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    265 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
```

Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   92.00 ; Decay
Coef. =   0.000   ; Rot. Angle =   0.0
                  Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =   3.6 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: Oceanside-Pacifica-OnsiteRec.err

 **File for Summary of Results: Oceanside-Pacifica-OnsiteRec.sum

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0000001   0   0.37736E-02 471610.9 3679689.7   30.3   5.00   4.65
4.65   YES

L0000002	0	0.37736E-02	471620.3	3679693.2	30.3	5.00	4.65	4.65 YES
L0000003	0	0.37736E-02	471629.6	3679696.6	30.2	5.00	4.65	4.65 YES
L0000004	0	0.37736E-02	471639.0	3679700.1	30.2	5.00	4.65	4.65 YES
L0000005	0	0.37736E-02	471648.4	3679703.6	30.2	5.00	4.65	4.65 YES
L0000006	0	0.37736E-02	471657.8	3679707.1	30.1	5.00	4.65	4.65 YES
L0000007	0	0.37736E-02	471667.1	3679710.5	30.1	5.00	4.65	4.65 YES
L0000008	0	0.37736E-02	471676.5	3679714.0	30.0	5.00	4.65	4.65 YES
L0000009	0	0.37736E-02	471685.9	3679717.5	30.0	5.00	4.65	4.65 YES
L0000010	0	0.37736E-02	471695.3	3679721.0	30.1	5.00	4.65	4.65 YES
L0000011	0	0.37736E-02	471704.6	3679724.4	30.1	5.00	4.65	4.65 YES
L0000012	0	0.37736E-02	471714.0	3679727.9	30.3	5.00	4.65	4.65 YES
L0000013	0	0.37736E-02	471723.4	3679731.4	30.6	5.00	4.65	4.65 YES
L0000014	0	0.37736E-02	471732.8	3679734.9	30.9	5.00	4.65	4.65 YES
L0000015	0	0.37736E-02	471742.2	3679738.3	30.8	5.00	4.65	4.65 YES
L0000016	0	0.37736E-02	471751.5	3679741.8	30.7	5.00	4.65	4.65 YES
L0000017	0	0.37736E-02	471759.2	3679746.0	30.7	5.00	4.65	4.65 YES
L0000018	0	0.37736E-02	471755.2	3679755.2	30.8	5.00	4.65	4.65 YES
L0000019	0	0.37736E-02	471751.3	3679764.4	30.9	5.00	4.65	4.65 YES
L0000020	0	0.37736E-02	471748.8	3679772.9	30.9	5.00	4.65	4.65 YES
L0000021	0	0.37736E-02	471758.3	3679775.9	30.9	5.00	4.65	4.65 YES
L0000022	0	0.37736E-02	471767.9	3679778.9	31.0	5.00	4.65	4.65 YES
L0000023	0	0.37736E-02	471777.4	3679781.9	31.1	5.00	4.65	4.65 YES
L0000024	0	0.37736E-02	471787.0	3679784.9	31.3	5.00	4.65	4.65 YES
L0000025	0	0.37736E-02	471792.3	3679782.5	31.6	5.00	4.65	4.65 YES
L0000026	0	0.37736E-02	471782.7	3679779.6	31.2	5.00	4.65	4.65 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000027	0	0.37736E-02	471773.2	3679776.7	31.1	5.00	4.65	4.65	YES	
L0000028	0	0.37736E-02	471763.6	3679773.8	31.0	5.00	4.65	4.65	YES	
L0000029	0	0.37736E-02	471754.0	3679770.8	30.9	5.00	4.65	4.65	YES	
L0000030	0	0.37736E-02	471759.2	3679766.3	30.9	5.00	4.65	4.65	YES	
L0000031	0	0.37736E-02	471768.7	3679769.5	31.1	5.00	4.65	4.65	YES	
L0000032	0	0.37736E-02	471778.1	3679772.7	31.2	5.00	4.65	4.65	YES	
L0000033	0	0.37736E-02	471787.6	3679775.9	31.4	5.00	4.65	4.65	YES	
L0000034	0	0.37736E-02	471795.0	3679775.1	31.7	5.00	4.65	4.65	YES	
L0000035	0	0.37736E-02	471788.6	3679770.3	31.4	5.00	4.65	4.65	YES	
L0000036	0	0.37736E-02	471779.1	3679767.4	31.2	5.00	4.65	4.65	YES	
L0000037	0	0.37736E-02	471769.5	3679764.4	31.1	5.00	4.65	4.65	YES	
L0000038	0	0.37736E-02	471760.0	3679761.5	30.9	5.00	4.65	4.65	YES	
L0000039	0	0.37736E-02	471763.2	3679755.9	31.0	5.00	4.65	4.65	YES	
L0000040	0	0.37736E-02	471772.7	3679759.1	31.4	5.00	4.65	4.65	YES	
L0000041	0	0.37736E-02	471782.1	3679762.2	31.6	5.00	4.65	4.65	YES	

L0000042	0	0.37736E-02	471791.6	3679765.4	31.7	5.00	4.65	4.65 YES
L0000043	0	0.37736E-02	471798.7	3679764.3	32.2	5.00	4.65	4.65 YES
L0000044	0	0.37736E-02	471791.6	3679760.1	32.3	5.00	4.65	4.65 YES
L0000045	0	0.37736E-02	471781.9	3679757.4	31.9	5.00	4.65	4.65 YES
L0000046	0	0.37736E-02	471772.3	3679754.8	31.5	5.00	4.65	4.65 YES
L0000047	0	0.37736E-02	471764.7	3679751.0	31.2	5.00	4.65	4.65 YES
L0000048	0	0.37736E-02	471765.2	3679742.7	31.3	5.00	4.65	4.65 YES
L0000049	0	0.37736E-02	471755.9	3679739.1	30.7	5.00	4.65	4.65 YES
L0000050	0	0.37736E-02	471746.5	3679735.6	30.8	5.00	4.65	4.65 YES
L0000051	0	0.37736E-02	471737.2	3679732.0	30.8	5.00	4.65	4.65 YES
L0000052	0	0.37736E-02	471727.8	3679728.5	30.6	5.00	4.65	4.65 YES
L0000053	0	0.37736E-02	471718.5	3679724.9	30.3	5.00	4.65	4.65 YES
L0000054	0	0.37736E-02	471709.1	3679721.4	30.1	5.00	4.65	4.65 YES
L0000055	0	0.37736E-02	471699.8	3679717.9	30.0	5.00	4.65	4.65 YES
L0000056	0	0.37736E-02	471690.4	3679714.3	29.9	5.00	4.65	4.65 YES
L0000057	0	0.37736E-02	471681.1	3679710.8	29.9	5.00	4.65	4.65 YES
L0000058	0	0.37736E-02	471671.7	3679707.2	29.9	5.00	4.65	4.65 YES
L0000059	0	0.37736E-02	471662.4	3679703.7	30.0	5.00	4.65	4.65 YES
L0000060	0	0.37736E-02	471653.0	3679700.1	30.1	5.00	4.65	4.65 YES
L0000061	0	0.37736E-02	471643.7	3679696.6	30.1	5.00	4.65	4.65 YES
L0000062	0	0.37736E-02	471634.3	3679693.0	30.1	5.00	4.65	4.65 YES
L0000063	0	0.37736E-02	471625.0	3679689.5	30.2	5.00	4.65	4.65 YES
L0000064	0	0.37736E-02	471615.7	3679685.9	30.2	5.00	4.65	4.65 YES
L0000065	0	0.37736E-02	471609.9	3679681.1	30.2	5.00	4.65	4.65 YES
L0000066	0	0.37736E-02	471618.1	3679681.3	30.2	5.00	4.65	4.65 YES

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 L0000067         0   0.37736E-02  471627.5 3679684.9    30.1     5.00     4.65
4.65     YES
 L0000068         0   0.37736E-02  471636.8 3679688.4    30.1     5.00     4.65
4.65     YES
 L0000069         0   0.37736E-02  471646.1 3679692.0    30.0     5.00     4.65
4.65     YES
 L0000070         0   0.37736E-02  471655.5 3679695.6    30.0     5.00     4.65
4.65     YES
 L0000071         0   0.37736E-02  471664.8 3679699.1    29.9     5.00     4.65
4.65     YES
 L0000072         0   0.37736E-02  471674.2 3679702.7    29.9     5.00     4.65
4.65     YES
 L0000073         0   0.37736E-02  471683.5 3679706.3    29.8     5.00     4.65
4.65     YES
 L0000074         0   0.37736E-02  471692.8 3679709.8    29.9     5.00     4.65
4.65     YES
 L0000075         0   0.37736E-02  471702.2 3679713.4    29.9     5.00     4.65
4.65     YES
 L0000076         0   0.37736E-02  471711.5 3679717.0    30.0     5.00     4.65
4.65     YES
 L0000077         0   0.37736E-02  471720.9 3679720.6    30.2     5.00     4.65
4.65     YES
 L0000078         0   0.37736E-02  471730.2 3679724.1    30.5     5.00     4.65
4.65     YES
 L0000079         0   0.37736E-02  471739.6 3679727.7    30.7     5.00     4.65
4.65     YES
 L0000080         0   0.37736E-02  471748.9 3679731.3    30.8     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:29:36

                                PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000081         0   0.37736E-02  471758.2 3679734.8    30.7     5.00     4.65
4.65     YES
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L0000082	0	0.37736E-02	471765.9	3679734.9	31.6	5.00	4.65	4.65 YES
L0000083	0	0.37736E-02	471763.4	3679728.0	31.8	5.00	4.65	4.65 YES
L0000084	0	0.37736E-02	471754.1	3679724.5	31.1	5.00	4.65	4.65 YES
L0000085	0	0.37736E-02	471744.7	3679721.0	30.9	5.00	4.65	4.65 YES
L0000086	0	0.37736E-02	471735.3	3679717.4	30.4	5.00	4.65	4.65 YES
L0000087	0	0.37736E-02	471726.0	3679713.9	30.1	5.00	4.65	4.65 YES
L0000088	0	0.37736E-02	471716.6	3679710.4	29.9	5.00	4.65	4.65 YES
L0000089	0	0.37736E-02	471707.2	3679706.9	29.8	5.00	4.65	4.65 YES
L0000090	0	0.37736E-02	471697.9	3679703.4	29.7	5.00	4.65	4.65 YES
L0000091	0	0.37736E-02	471688.5	3679699.9	29.7	5.00	4.65	4.65 YES
L0000092	0	0.37736E-02	471679.1	3679696.4	29.7	5.00	4.65	4.65 YES
L0000093	0	0.37736E-02	471669.8	3679692.9	29.8	5.00	4.65	4.65 YES
L0000094	0	0.37736E-02	471660.4	3679689.4	29.8	5.00	4.65	4.65 YES
L0000095	0	0.37736E-02	471651.0	3679685.9	29.9	5.00	4.65	4.65 YES
L0000096	0	0.37736E-02	471641.7	3679682.4	29.9	5.00	4.65	4.65 YES
L0000097	0	0.37736E-02	471632.3	3679678.9	30.0	5.00	4.65	4.65 YES
L0000098	0	0.37736E-02	471622.9	3679675.4	30.0	5.00	4.65	4.65 YES
L0000099	0	0.37736E-02	471613.6	3679671.9	30.1	5.00	4.65	4.65 YES
L0000100	0	0.37736E-02	471618.1	3679664.8	29.9	5.00	4.65	4.65 YES
L0000101	0	0.37736E-02	471627.4	3679668.5	29.9	5.00	4.65	4.65 YES
L0000102	0	0.37736E-02	471636.7	3679672.2	29.9	5.00	4.65	4.65 YES
L0000103	0	0.37736E-02	471646.0	3679675.9	29.8	5.00	4.65	4.65 YES
L0000104	0	0.37736E-02	471655.3	3679679.6	29.7	5.00	4.65	4.65 YES
L0000105	0	0.37736E-02	471664.6	3679683.3	29.7	5.00	4.65	4.65 YES
L0000106	0	0.37736E-02	471673.9	3679687.0	29.7	5.00	4.65	4.65 YES

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 L0000107         0   0.37736E-02  471683.2 3679690.7    29.6     5.00     4.65
4.65     YES
 L0000108         0   0.37736E-02  471692.5 3679694.4    29.7     5.00     4.65
4.65     YES
 L0000109         0   0.37736E-02  471701.8 3679698.1    29.7     5.00     4.65
4.65     YES
 L0000110         0   0.37736E-02  471711.1 3679701.8    29.7     5.00     4.65
4.65     YES
 L0000111         0   0.37736E-02  471720.3 3679705.4    29.9     5.00     4.65
4.65     YES
 L0000112         0   0.37736E-02  471729.6 3679709.1    30.0     5.00     4.65
4.65     YES
 L0000113         0   0.37736E-02  471738.9 3679712.8    30.5     5.00     4.65
4.65     YES
 L0000114         0   0.37736E-02  471748.2 3679716.5    31.1     5.00     4.65
4.65     YES
 L0000115         0   0.37736E-02  471757.5 3679720.2    31.4     5.00     4.65
4.65     YES
 L0000116         0   0.37736E-02  471766.8 3679723.9    32.7     5.00     4.65
4.65     YES
 L0000117         0   0.37736E-02  471768.1 3679719.8    33.4     5.00     4.65
4.65     YES
 L0000118         0   0.37736E-02  471758.8 3679716.1    31.6     5.00     4.65
4.65     YES
 L0000119         0   0.37736E-02  471749.5 3679712.4    31.2     5.00     4.65
4.65     YES
 L0000120         0   0.37736E-02  471740.2 3679708.7    30.6     5.00     4.65
4.65     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000121	0	0.37736E-02	471730.9	3679705.0	29.9	5.00	4.65	4.65	YES	

L0000122	0	0.37736E-02	471721.6	3679701.3	29.8	5.00	4.65	4.65	YES
L0000123	0	0.37736E-02	471712.3	3679697.6	29.7	5.00	4.65	4.65	YES
L0000124	0	0.37736E-02	471703.0	3679693.9	29.6	5.00	4.65	4.65	YES
L0000125	0	0.37736E-02	471693.8	3679690.2	29.6	5.00	4.65	4.65	YES
L0000126	0	0.37736E-02	471684.5	3679686.5	29.6	5.00	4.65	4.65	YES
L0000127	0	0.37736E-02	471675.2	3679682.8	29.6	5.00	4.65	4.65	YES
L0000128	0	0.37736E-02	471665.9	3679679.1	29.6	5.00	4.65	4.65	YES
L0000129	0	0.37736E-02	471656.6	3679675.4	29.7	5.00	4.65	4.65	YES
L0000130	0	0.37736E-02	471647.3	3679671.7	29.7	5.00	4.65	4.65	YES
L0000131	0	0.37736E-02	471638.0	3679668.0	29.8	5.00	4.65	4.65	YES
L0000132	0	0.37736E-02	471628.7	3679664.2	29.8	5.00	4.65	4.65	YES
L0000133	0	0.37736E-02	471619.5	3679660.5	29.9	5.00	4.65	4.65	YES
L0000134	0	0.37736E-02	471624.0	3679656.4	29.8	5.00	4.65	4.65	YES
L0000135	0	0.37736E-02	471633.3	3679660.1	29.7	5.00	4.65	4.65	YES
L0000136	0	0.37736E-02	471642.6	3679663.9	29.7	5.00	4.65	4.65	YES
L0000137	0	0.37736E-02	471651.9	3679667.6	29.6	5.00	4.65	4.65	YES
L0000138	0	0.37736E-02	471661.1	3679671.3	29.6	5.00	4.65	4.65	YES
L0000139	0	0.37736E-02	471670.4	3679675.1	29.6	5.00	4.65	4.65	YES
L0000140	0	0.37736E-02	471679.7	3679678.8	29.5	5.00	4.65	4.65	YES
L0000141	0	0.37736E-02	471689.0	3679682.5	29.5	5.00	4.65	4.65	YES
L0000142	0	0.37736E-02	471698.3	3679686.2	29.5	5.00	4.65	4.65	YES
L0000143	0	0.37736E-02	471707.5	3679690.0	29.6	5.00	4.65	4.65	YES
L0000144	0	0.37736E-02	471716.8	3679693.7	29.7	5.00	4.65	4.65	YES
L0000145	0	0.37736E-02	471726.1	3679697.4	29.8	5.00	4.65	4.65	YES
L0000146	0	0.37736E-02	471735.4	3679701.1	30.2	5.00	4.65	4.65	YES

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 L0000147         0   0.37736E-02  471744.7 3679704.9    31.0     5.00     4.65
4.65     YES
 L0000148         0   0.37736E-02  471753.9 3679708.6    31.6     5.00     4.65
4.65     YES
 L0000149         0   0.37736E-02  471763.2 3679712.3    32.9     5.00     4.65
4.65     YES
 L0000150         0   0.37736E-02  471762.0 3679707.2    32.9     5.00     4.65
4.65     YES
 L0000151         0   0.37736E-02  471752.7 3679703.5    31.9     5.00     4.65
4.65     YES
 L0000152         0   0.37736E-02  471743.5 3679699.8    31.2     5.00     4.65
4.65     YES
 L0000153         0   0.37736E-02  471734.2 3679696.0    30.1     5.00     4.65
4.65     YES
 L0000154         0   0.37736E-02  471724.9 3679692.3    29.8     5.00     4.65
4.65     YES
 L0000155         0   0.37736E-02  471715.6 3679688.5    29.6     5.00     4.65
4.65     YES
 L0000156         0   0.37736E-02  471706.4 3679684.8    29.5     5.00     4.65
4.65     YES
 L0000157         0   0.37736E-02  471697.1 3679681.0    29.5     5.00     4.65
4.65     YES
 L0000158         0   0.37736E-02  471687.8 3679677.3    29.5     5.00     4.65
4.65     YES
 L0000159         0   0.37736E-02  471678.5 3679673.5    29.5     5.00     4.65
4.65     YES
 L0000160         0   0.37736E-02  471669.3 3679669.8    29.5     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000161         0   0.37736E-02  471660.0 3679666.1    29.5     5.00     4.65
4.65     YES
```

L0000162	0	0.37736E-02	471650.7	3679662.3	29.6	5.00	4.65	4.65	YES
L0000163	0	0.37736E-02	471641.5	3679658.6	29.6	5.00	4.65	4.65	YES
L0000164	0	0.37736E-02	471632.2	3679654.8	29.7	5.00	4.65	4.65	YES
L0000165	0	0.37736E-02	471622.9	3679651.1	29.7	5.00	4.65	4.65	YES
L0000166	0	0.37736E-02	471624.0	3679645.5	29.6	5.00	4.65	4.65	YES
L0000167	0	0.37736E-02	471633.2	3679649.4	29.6	5.00	4.65	4.65	YES
L0000168	0	0.37736E-02	471642.5	3679653.2	29.6	5.00	4.65	4.65	YES
L0000169	0	0.37736E-02	471651.7	3679657.0	29.5	5.00	4.65	4.65	YES
L0000170	0	0.37736E-02	471660.9	3679660.9	29.5	5.00	4.65	4.65	YES
L0000171	0	0.37736E-02	471670.2	3679664.7	29.4	5.00	4.65	4.65	YES
L0000172	0	0.37736E-02	471679.4	3679668.5	29.4	5.00	4.65	4.65	YES
L0000173	0	0.37736E-02	471688.6	3679672.4	29.4	5.00	4.65	4.65	YES
L0000174	0	0.37736E-02	471697.9	3679676.2	29.4	5.00	4.65	4.65	YES
L0000175	0	0.37736E-02	471707.1	3679680.0	29.4	5.00	4.65	4.65	YES
L0000176	0	0.37736E-02	471716.3	3679683.9	29.6	5.00	4.65	4.65	YES
L0000177	0	0.37736E-02	471725.6	3679687.7	29.7	5.00	4.65	4.65	YES
L0000178	0	0.37736E-02	471734.8	3679691.6	30.2	5.00	4.65	4.65	YES
L0000179	0	0.37736E-02	471744.1	3679695.4	31.6	5.00	4.65	4.65	YES
L0000180	0	0.37736E-02	471753.3	3679699.2	32.6	5.00	4.65	4.65	YES
L0000181	0	0.37736E-02	471755.4	3679696.7	33.2	5.00	4.65	4.65	YES
L0000182	0	0.37736E-02	471746.2	3679692.9	32.2	5.00	4.65	4.65	YES
L0000183	0	0.37736E-02	471736.9	3679689.1	30.6	5.00	4.65	4.65	YES
L0000184	0	0.37736E-02	471727.7	3679685.3	29.7	5.00	4.65	4.65	YES
L0000185	0	0.37736E-02	471718.4	3679681.5	29.6	5.00	4.65	4.65	YES
L0000186	0	0.37736E-02	471709.2	3679677.7	29.4	5.00	4.65	4.65	YES

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 L0000187         0   0.37736E-02  471699.9 3679673.9    29.4     5.00     4.65
4.65     YES
 L0000188         0   0.37736E-02  471690.7 3679670.1    29.4     5.00     4.65
4.65     YES
 L0000189         0   0.37736E-02  471681.4 3679666.2    29.4     5.00     4.65
4.65     YES
 L0000190         0   0.37736E-02  471672.2 3679662.4    29.4     5.00     4.65
4.65     YES
 L0000191         0   0.37736E-02  471662.9 3679658.6    29.4     5.00     4.65
4.65     YES
 L0000192         0   0.37736E-02  471653.7 3679654.8    29.5     5.00     4.65
4.65     YES
 L0000193         0   0.37736E-02  471644.4 3679651.0    29.5     5.00     4.65
4.65     YES
 L0000194         0   0.37736E-02  471635.2 3679647.2    29.6     5.00     4.65
4.65     YES
 L0000195         0   0.37736E-02  471626.0 3679643.4    29.6     5.00     4.65
4.65     YES
 L0000196         0   0.37736E-02  471629.3 3679639.2    29.5     5.00     4.65
4.65     YES
 L0000197         0   0.37736E-02  471638.6 3679643.0    29.5     5.00     4.65
4.65     YES
 L0000198         0   0.37736E-02  471647.8 3679646.8    29.4     5.00     4.65
4.65     YES
 L0000199         0   0.37736E-02  471657.0 3679650.7    29.4     5.00     4.65
4.65     YES
 L0000200         0   0.37736E-02  471666.3 3679654.5    29.4     5.00     4.65
4.65     YES
```



```
                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000201         0   0.37736E-02  471675.5 3679658.3    29.4     5.00     4.65
4.65     YES
```

L0000202	0	0.37736E-02	471684.8	3679662.1	29.4	5.00	4.65	4.65 YES
L0000203	0	0.37736E-02	471694.0	3679665.9	29.5	5.00	4.65	4.65 YES
L0000204	0	0.37736E-02	471703.3	3679669.7	29.5	5.00	4.65	4.65 YES
L0000205	0	0.37736E-02	471712.5	3679673.5	29.5	5.00	4.65	4.65 YES
L0000206	0	0.37736E-02	471721.8	3679677.3	29.6	5.00	4.65	4.65 YES
L0000207	0	0.37736E-02	471731.0	3679681.1	29.7	5.00	4.65	4.65 YES
L0000208	0	0.37736E-02	471740.3	3679684.9	31.5	5.00	4.65	4.65 YES
L0000209	0	0.37736E-02	471740.5	3679679.9	31.8	5.00	4.65	4.65 YES
L0000210	0	0.37736E-02	471731.2	3679676.2	29.6	5.00	4.65	4.65 YES
L0000211	0	0.37736E-02	471721.9	3679672.6	29.7	5.00	4.65	4.65 YES
L0000212	0	0.37736E-02	471712.6	3679668.9	29.7	5.00	4.65	4.65 YES
L0000213	0	0.37736E-02	471703.3	3679665.2	29.6	5.00	4.65	4.65 YES
L0000214	0	0.37736E-02	471694.0	3679661.6	29.5	5.00	4.65	4.65 YES
L0000215	0	0.37736E-02	471684.7	3679657.9	29.4	5.00	4.65	4.65 YES
L0000216	0	0.37736E-02	471675.4	3679654.2	29.3	5.00	4.65	4.65 YES
L0000217	0	0.37736E-02	471666.1	3679650.5	29.3	5.00	4.65	4.65 YES
L0000218	0	0.37736E-02	471656.8	3679646.9	29.4	5.00	4.65	4.65 YES
L0000219	0	0.37736E-02	471647.5	3679643.2	29.4	5.00	4.65	4.65 YES
L0000220	0	0.37736E-02	471638.2	3679639.5	29.5	5.00	4.65	4.65 YES
L0000221	0	0.37736E-02	471629.0	3679635.8	29.4	5.00	4.65	4.65 YES
L0000222	0	0.37736E-02	471632.9	3679629.7	29.4	5.00	4.65	4.65 YES
L0000223	0	0.37736E-02	471642.2	3679633.4	29.5	5.00	4.65	4.65 YES
L0000224	0	0.37736E-02	471651.4	3679637.2	29.5	5.00	4.65	4.65 YES
L0000225	0	0.37736E-02	471660.7	3679641.0	29.5	5.00	4.65	4.65 YES
L0000226	0	0.37736E-02	471669.9	3679644.8	29.3	5.00	4.65	4.65 YES

```
 L0000227         0   0.37736E-02  471679.2 3679648.5    29.2     5.00     4.65
4.65     YES
 L0000228         0   0.37736E-02  471688.5 3679652.3    29.5     5.00     4.65
4.65     YES
 L0000229         0   0.37736E-02  471697.7 3679656.1    29.7     5.00     4.65
4.65     YES
 L0000230         0   0.37736E-02  471707.0 3679659.9    29.8     5.00     4.65
4.65     YES
 L0000231         0   0.37736E-02  471716.2 3679663.6    30.2     5.00     4.65
4.65     YES
 L0000232         0   0.37736E-02  471725.5 3679667.4    30.4     5.00     4.65
4.65     YES
 L0000233         0   0.37736E-02  471731.0 3679663.6    31.1     5.00     4.65
4.65     YES
 L0000234         0   0.37736E-02  471722.6 3679659.5    31.0     5.00     4.65
4.65     YES
 L0000235         0   0.37736E-02  471713.3 3679655.9    30.5     5.00     4.65
4.65     YES
 L0000236         0   0.37736E-02  471704.0 3679652.4    29.9     5.00     4.65
4.65     YES
 L0000237         0   0.37736E-02  471694.6 3679648.8    29.7     5.00     4.65
4.65     YES
 L0000238         0   0.37736E-02  471685.3 3679645.2    29.4     5.00     4.65
4.65     YES
 L0000239         0   0.37736E-02  471676.0 3679641.6    29.5     5.00     4.65
4.65     YES
 L0000240         0   0.37736E-02  471666.6 3679638.0    29.7     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0000241         0   0.37736E-02  471657.3 3679634.4    29.7     5.00     4.65
4.65     YES
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 L0000242         0   0.37736E-02  471648.0 3679630.8    29.6     5.00     4.65
4.65     YES
 L0000243         0   0.37736E-02  471638.6 3679627.2    29.4     5.00     4.65
4.65     YES
 L0000244         0   0.37736E-02  471634.2 3679622.0    29.3     5.00     4.65
4.65     YES
 L0000245         0   0.37736E-02  471642.4 3679622.2    29.6     5.00     4.65
4.65     YES
 L0000246         0   0.37736E-02  471651.8 3679625.7    29.8     5.00     4.65
4.65     YES
 L0000247         0   0.37736E-02  471661.2 3679629.2    30.0     5.00     4.65
4.65     YES
 L0000248         0   0.37736E-02  471670.5 3679632.8    30.2     5.00     4.65
4.65     YES
 L0000249         0   0.37736E-02  471679.9 3679636.3    30.1     5.00     4.65
4.65     YES
 L0000250         0   0.37736E-02  471689.3 3679639.8    30.1     5.00     4.65
4.65     YES
 L0000251         0   0.37736E-02  471698.6 3679643.3    30.0     5.00     4.65
4.65     YES
 L0000252         0   0.37736E-02  471708.0 3679646.8    30.3     5.00     4.65
4.65     YES
 L0000253         0   0.37736E-02  471717.4 3679650.3    31.2     5.00     4.65
4.65     YES
 L0000254         0   0.37736E-02  471726.7 3679653.8    31.9     5.00     4.65
4.65     YES
 L0000255         0   0.37736E-02  471734.4 3679653.5    32.9     5.00     4.65
4.65     YES
 L0000256         0   0.37736E-02  471727.5 3679648.7    32.6     5.00     4.65
4.65     YES
 L0000257         0   0.37736E-02  471718.3 3679644.9    31.8     5.00     4.65
4.65     YES
 L0000258         0   0.37736E-02  471709.0 3679641.1    31.1     5.00     4.65
4.65     YES
 L0000259         0   0.37736E-02  471699.8 3679637.3    31.1     5.00     4.65
4.65     YES
 L0000260         0   0.37736E-02  471690.5 3679633.5    31.1     5.00     4.65
4.65     YES
 L0000261         0   0.37736E-02  471681.3 3679629.7    31.0     5.00     4.65
4.65     YES
 L0000262         0   0.37736E-02  471672.0 3679625.9    30.9     5.00     4.65
4.65     YES
 L0000263         0   0.37736E-02  471662.7 3679622.1    30.5     5.00     4.65
4.65     YES
 L0000264         0   0.37736E-02  471653.5 3679618.3    30.0     5.00     4.65
4.65     YES
 L0000265         0   0.37736E-02  471644.2 3679614.5    29.7     5.00     4.65
4.65     YES
↟ *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,

L0000102   , L0000103   , L0000104   ,

             L0000105   , L0000106   , L0000107   , L0000108   , L0000109   ,
L0000110   , L0000111   , L0000112   ,

             L0000113   , L0000114   , L0000115   , L0000116   , L0000117   ,
L0000118   , L0000119   , L0000120   ,

             L0000121   , L0000122   , L0000123   , L0000124   , L0000125   ,
L0000126   , L0000127   , L0000128   ,

             L0000129   , L0000130   , L0000131   , L0000132   , L0000133   ,
L0000134   , L0000135   , L0000136   ,

             L0000137   , L0000138   , L0000139   , L0000140   , L0000141   ,
L0000142   , L0000143   , L0000144   ,

             L0000145   , L0000146   , L0000147   , L0000148   , L0000149   ,
L0000150   , L0000151   , L0000152   ,

             L0000153   , L0000154   , L0000155   , L0000156   , L0000157   ,
L0000158   , L0000159   , L0000160   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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             L0000161   , L0000162   , L0000163   , L0000164   , L0000165   ,
L0000166   , L0000167   , L0000168   ,

             L0000169   , L0000170   , L0000171   , L0000172   , L0000173   ,
L0000174   , L0000175   , L0000176   ,

             L0000177   , L0000178   , L0000179   , L0000180   , L0000181   ,
L0000182   , L0000183   , L0000184   ,

             L0000185   , L0000186   , L0000187   , L0000188   , L0000189   ,
L0000190   , L0000191   , L0000192   ,

             L0000193   , L0000194   , L0000195   , L0000196   , L0000197   ,

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L0000198    , L0000199    , L0000200    ,

             L0000201    , L0000202    , L0000203    , L0000204    , L0000205    ,
L0000206    , L0000207    , L0000208    ,

             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
L0000214    , L0000215    , L0000216    ,

             L0000217    , L0000218    , L0000219    , L0000220    , L0000221    ,
L0000222    , L0000223    , L0000224    ,

             L0000225    , L0000226    , L0000227    , L0000228    , L0000229    ,
L0000230    , L0000231    , L0000232    ,

             L0000233    , L0000234    , L0000235    , L0000236    , L0000237    ,
L0000238    , L0000239    , L0000240    ,

             L0000241    , L0000242    , L0000243    , L0000244    , L0000245    ,
L0000246    , L0000247    , L0000248    ,

             L0000249    , L0000250    , L0000251    , L0000252    , L0000253    ,
L0000254    , L0000255    , L0000256    ,

             L0000257    , L0000258    , L0000259    , L0000260    , L0000261    ,
L0000262    , L0000263    , L0000264    ,

             L0000265    ,
↟ *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


              3287306.   L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    ,
 L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,
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            L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

            L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

            L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

            L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

            L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

            L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

            L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

            L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

            L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

            L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

            L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

            L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

            L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

            L0000121    , L0000122    , L0000123    , L0000124    , L0000125    ,
L0000126    , L0000127    , L0000128    ,

            L0000129    , L0000130    , L0000131    , L0000132    , L0000133    ,
L0000134    , L0000135    , L0000136    ,

            L0000137    , L0000138    , L0000139    , L0000140    , L0000141    ,
L0000142    , L0000143    , L0000144    ,

            L0000145    , L0000146    , L0000147    , L0000148    , L0000149    ,
L0000150    , L0000151    , L0000152    ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
L0000166 , L0000167 , L0000168 ,

L0000169 , L0000170 , L0000171 , L0000172 , L0000173 ,
L0000174 , L0000175 , L0000176 ,

L0000177 , L0000178 , L0000179 , L0000180 , L0000181 ,
L0000182 , L0000183 , L0000184 ,

L0000185 , L0000186 , L0000187 , L0000188 , L0000189 ,
L0000190 , L0000191 , L0000192 ,

L0000193 , L0000194 , L0000195 , L0000196 , L0000197 ,
L0000198 , L0000199 , L0000200 ,

L0000201 , L0000202 , L0000203 , L0000204 , L0000205 ,
L0000206 , L0000207 , L0000208 ,

L0000209 , L0000210 , L0000211 , L0000212 , L0000213 ,
L0000214 , L0000215 , L0000216 ,

L0000217 , L0000218 , L0000219 , L0000220 , L0000221 ,
L0000222 , L0000223 , L0000224 ,

L0000225 , L0000226 , L0000227 , L0000228 , L0000229 ,
L0000230 , L0000231 , L0000232 ,

L0000233 , L0000234 , L0000235 , L0000236 , L0000237 ,
L0000238 , L0000239 , L0000240 ,

L0000241 , L0000242 , L0000243 , L0000244 , L0000245 ,

L0000246   , L0000247   , L0000248   ,

             L0000249   , L0000250   , L0000251   , L0000252   , L0000253   ,
L0000254   , L0000255   , L0000256   ,

             L0000257   , L0000258   , L0000259   , L0000260   , L0000261   ,
L0000262   , L0000263   , L0000264   ,

             L0000265   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (471673.1, 3679746.4,   30.6,   54.9,   0.0);   (471681.7,
3679746.4,   30.5,   54.9,   0.0);
     (471690.3, 3679746.4,   30.5,   49.9,   0.0);   (471698.8,
3679746.4,   30.5,   49.9,   0.0);
     (471707.4, 3679746.4,   30.5,   42.7,   0.0);   (471716.0,
3679746.4,   30.7,   42.7,   0.0);
     (471733.1, 3679746.4,   30.9,   39.9,   0.0);   (471741.7,
3679746.4,   30.9,   39.9,   0.0);
     (471621.7, 3679753.1,   31.3,   55.8,   0.0);   (471681.7,
3679753.1,   30.6,   54.9,   0.0);
     (471690.3, 3679753.1,   30.6,   49.9,   0.0);   (471698.8,
3679753.1,   30.7,   49.9,   0.0);
     (471707.4, 3679753.1,   30.7,   49.9,   0.0);   (471724.5,
3679753.1,   30.9,   42.0,   0.0);
     (471733.1, 3679753.1,   31.0,   42.0,   0.0);   (471741.7,
3679753.1,   30.9,   39.9,   0.0);
     (471621.7, 3679759.8,   31.4,   55.8,   0.0);   (471630.3,
3679759.8,   31.3,   55.8,   0.0);
     (471638.8, 3679759.8,   31.2,   55.8,   0.0);   (471698.8,
3679759.8,   30.8,   49.9,   0.0);
     (471707.4, 3679759.8,   30.8,   49.9,   0.0);   (471724.5,
3679759.8,   30.9,   48.5,   0.0);
     (471733.1, 3679759.8,   31.0,   42.0,   0.0);   (471741.7,
3679759.8,   30.9,   42.0,   0.0);
     (471613.1, 3679766.4,   31.7,   55.8,   0.0);   (471621.7,
3679766.4,   31.5,   55.8,   0.0);
     (471630.3, 3679766.4,   31.4,   55.8,   0.0);   (471638.8,
3679766.4,   31.3,   55.8,   0.0);
     (471647.4, 3679766.4,   31.2,   55.8,   0.0);   (471656.0,

```
3679766.4,      31.1,      55.8,       0.0);
     ( 471724.5, 3679766.4,      31.0,      48.5,       0.0);         ( 471733.1,
3679766.4,      31.0,      48.5,       0.0);
     ( 471741.7, 3679766.4,      31.0,      42.0,       0.0);         ( 471613.1,
3679773.1,      32.4,      55.8,       0.0);
     ( 471621.7, 3679773.1,      31.9,      55.8,       0.0);         ( 471630.3,
3679773.1,      31.5,      55.8,       0.0);
     ( 471638.8, 3679773.1,      31.4,      55.8,       0.0);         ( 471647.4,
3679773.1,      31.2,      55.8,       0.0);
     ( 471656.0, 3679773.1,      31.1,      55.8,       0.0);         ( 471664.6,
3679773.1,      31.0,      55.8,       0.0);
     ( 471673.1, 3679773.1,      31.0,      55.8,       0.0);         ( 471724.5,
3679773.1,      31.0,      49.9,       0.0);
     ( 471733.1, 3679773.1,      31.0,      48.5,       0.0);         ( 471741.7,
3679773.1,      31.0,      48.5,       0.0);
     ( 471613.1, 3679779.8,      33.1,      55.8,       0.0);         ( 471621.7,
3679779.8,      32.3,      55.8,       0.0);
     ( 471630.3, 3679779.8,      31.6,      55.8,       0.0);         ( 471638.8,
3679779.8,      31.4,      55.8,       0.0);
     ( 471647.4, 3679779.8,      31.2,      55.8,       0.0);         ( 471656.0,
3679779.8,      31.1,      55.8,       0.0);
     ( 471664.6, 3679779.8,      31.0,      55.8,       0.0);         ( 471673.1,
3679779.8,      31.0,      55.8,       0.0);
     ( 471681.7, 3679779.8,      30.9,      55.8,       0.0);         ( 471690.3,
3679779.8,      30.9,      55.8,       0.0);
     ( 471741.7, 3679779.8,      31.0,      49.1,       0.0);         ( 471613.1,
3679786.4,      33.9,      55.8,       0.0);
     ( 471621.7, 3679786.4,      32.8,      55.8,       0.0);         ( 471630.3,
3679786.4,      31.7,      56.0,       0.0);
     ( 471638.8, 3679786.4,      31.4,      56.0,       0.0);         ( 471647.4,
3679786.4,      31.2,      56.0,       0.0);
     ( 471656.0, 3679786.4,      31.0,      55.8,       0.0);         ( 471664.6,
3679786.4,      31.0,      55.8,       0.0);
     ( 471673.1, 3679786.4,      30.9,      55.8,       0.0);         ( 471681.7,
3679786.4,      30.9,      55.8,       0.0);
     ( 471690.3, 3679786.4,      30.9,      55.8,       0.0);         ( 471698.8,
3679786.4,      30.9,      55.8,       0.0);
     ( 471707.4, 3679786.4,      30.9,      54.9,       0.0);         ( 471621.7,
3679793.1,      33.2,      55.8,       0.0);
     ( 471630.3, 3679793.1,      31.8,      56.0,       0.0);         ( 471638.8,
3679793.1,      31.5,      56.0,       0.0);
     ( 471647.4, 3679793.1,      31.2,      56.0,       0.0);         ( 471656.0,
3679793.1,      31.0,      56.0,       0.0);
     ( 471664.6, 3679793.1,      31.0,      56.0,       0.0);         ( 471673.1,
3679793.1,      30.9,      55.8,       0.0);
     ( 471681.7, 3679793.1,      30.9,      55.8,       0.0);         ( 471690.3,
3679793.1,      30.9,      55.8,       0.0);
     ( 471698.8, 3679793.1,      30.9,      55.8,       0.0);         ( 471707.4,
3679793.1,      31.0,      55.8,       0.0);
     ( 471716.0, 3679793.1,      31.0,      54.9,       0.0);         ( 471724.5,
```

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (471733.1, 3679799.8,   31.0,   54.9,   0.0);   (471664.6,
3679806.4,   33.4,   55.8,   0.0);
     (471673.1, 3679806.4,   32.9,   55.8,   0.0);   (471681.7,
3679806.4,   32.4,   55.8,   0.0);
     (471690.3, 3679806.4,   32.0,   55.8,   0.0);   (471698.8,
3679806.4,   31.5,   55.8,   0.0);
     (471707.4, 3679806.4,   31.1,   55.8,   0.0);   (471716.0,
3679806.4,   31.1,   55.8,   0.0);
     (471724.5, 3679806.4,   31.1,   55.8,   0.0);   (471733.1,
3679806.4,   31.1,   54.9,   0.0);
     (471681.7, 3679813.1,   33.6,   55.8,   0.0);   (471690.3,
3679813.1,   32.8,   55.8,   0.0);
     (471698.8, 3679813.1,   32.0,   55.8,   0.0);   (471707.4,
3679813.1,   31.2,   55.8,   0.0);
     (471716.0, 3679813.1,   31.2,   55.8,   0.0);   (471724.5,
3679813.1,   31.2,   55.8,   0.0);
     (471698.8, 3679819.8,   32.4,   55.8,   0.0);   (471707.4,
3679819.8,   31.2,   55.8,   0.0);
     (471716.0, 3679819.8,   31.2,   55.8,   0.0);   (471724.5,
3679819.8,   31.3,   55.8,   0.0);
     (471741.7, 3679819.8,   31.3,   54.9,   0.0);   (471716.0,
3679826.5,   31.3,   55.8,   0.0);
     (471724.5, 3679826.5,   31.4,   55.8,   0.0);   (471741.7,
3679826.5,   31.4,   54.9,   0.0);
     (471741.7, 3679833.1,   32.2,   54.9,   0.0);   (471610.9,
3679704.2,   30.5,   49.9,   0.0);
     (471609.6, 3679708.7,   30.6,   49.9,   0.0);   (471607.1,

3679714.1,   30.8,   49.9,   0.0);
     (471605.8, 3679718.3,   30.9,   49.9,   0.0);   (471603.8,
3679722.8,   31.0,   54.9,   0.0);
     (471599.7, 3679732.2,   31.2,   54.9,   0.0);   (471638.5,
3679716.6,   30.4,   49.9,   0.0);
     (471636.7, 3679721.7,   30.5,   49.9,   0.0);   (471631.3,
3679732.3,   30.8,   54.9,   0.0);
     (471640.3, 3679708.7,   30.3,   49.9,   0.0);   (471612.1,
3679699.5,   30.5,   49.9,   0.0);
     (471658.3, 3679716.8,   30.2,   49.9,   0.0);   (471655.4,
3679721.3,   30.3,   49.9,   0.0);
     (471653.8, 3679725.1,   30.4,   49.9,   0.0);   (471652.2,
3679731.1,   30.5,   54.9,   0.0);
     (471648.9, 3679739.4,   30.6,   54.9,   0.0);   (471680.5,
3679737.2,   30.3,   49.9,   0.0);
     (471682.6, 3679731.4,   30.2,   49.9,   0.0);   (471683.5,
3679727.5,   30.2,   49.9,   0.0);
     (471694.7, 3679738.3,   30.4,   49.9,   0.0);   (471696.2,
3679734.5,   30.3,   49.9,   0.0);
     (471707.9, 3679737.0,   30.4,   42.7,   0.0);   (471736.0,
3679749.1,   30.9,   39.9,   0.0);
     (471760.7, 3679792.0,   30.9,   48.5,   0.0);   (471752.4,
3679789.7,   30.9,   49.1,   0.0);
     (471749.3, 3679807.0,   31.1,   49.1,   0.0);   (471744.0,
3679814.3,   31.2,   54.9,   0.0);

                     * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
BE PERFORMED *
                       LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
FASTAREA/FASTALL

                            SOURCE   - - RECEPTOR LOCATION - -
DISTANCE
                              ID   XR (METERS)   YR (METERS)
(METERS)
                           -
- - -

                            L0000001   471612.1   3679699.5
-0.07
                            L0000002   471612.1   3679699.5
0.32

	L0000004	471640.3	3679708.7
-1.29			
	L0000005	471640.3	3679708.7
-0.39			
	L0000006	471658.3	3679716.8
-0.21			
	L0000007	471658.3	3679716.8
0.86			
	L0000009	471683.5	3679727.5
0.26			
	L0000015	471741.7	3679746.4
-1.90			
	L0000016	471741.7	3679746.4
0.87			
	L0000019	471741.7	3679759.8
0.68			
	L0000019	471741.7	3679766.4
-0.17			
	L0000020	471741.7	3679766.4
-0.36			
	L0000020	471741.7	3679773.1
-2.89			
	L0000020	471741.7	3679779.8
-0.14			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\McClellanPalomar_2019_2021_v22112.SFC
Met Version: 22112
Profile file: ..\McClellanPalomar_2019_2021_v22112.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3177 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	1.00	1.57	25.	7.9	280.3	2.0
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	1.00	1.79	35.	7.9	279.8	2.0
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	1.00	2.45	31.	7.9	279.2	2.0
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	1.00	1.77	41.	7.9	278.1	2.0

```
 19 01 01   1 05  -13.0  0.143 -9.000 -9.000 -999.  129.     22.4  0.03   0.93
1.00    2.18   30.    7.9  279.2    2.0
 19 01 01   1 06  -12.3  0.139 -9.000 -9.000 -999.  124.     21.2  0.03   0.93
1.00    2.10   24.    7.9  278.8    2.0
 19 01 01   1 07  -13.6  0.146 -9.000 -9.000 -999.  134.     23.5  0.03   0.93
1.00    2.20    6.    7.9  279.8    2.0
 19 01 01   1 08  -15.9  0.231 -9.000 -9.000 -999.  267.     69.9  0.03   0.93
0.50    3.42   40.    7.9  280.9    2.0
 19 01 01   1 09   30.2  0.206  0.499  0.005  148.  225.    -26.1  0.03   0.93
0.29    2.61   41.    7.9  283.1    2.0
 19 01 01   1 10   77.6  0.226  0.818  0.005  254.  258.    -13.4  0.03   0.93
0.22    2.67    7.    7.9  284.8    2.0
 19 01 01   1 11  110.3  0.226  1.328  0.005  763.  257.     -9.4  0.03   0.93
0.20    2.57   17.    7.9  286.4    2.0
 19 01 01   1 12  125.8  0.231  1.462  0.005  892.  267.     -8.8  0.03   0.93
0.19    2.62    2.    7.9  287.0    2.0
 19 01 01   1 13  123.8  0.281  1.512  0.005 1004.  358.    -16.1  0.03   0.93
0.19    3.35  353.    7.9  287.5    2.0
 19 01 01   1 14  104.6  0.245  1.470  0.005 1090.  292.    -12.7  0.03   0.93
0.20    2.88    7.    7.9  288.8    2.0
 19 01 01   1 15   68.4  0.246  1.295  0.005 1142.  293.    -19.6  0.03   0.93
0.23    3.07   64.    7.9  288.8    2.0
 19 01 01   1 16   18.1  0.311  0.835  0.005 1153.  416.   -149.4  0.03   0.93
0.32    4.29   87.    7.9  287.0    2.0
 19 01 01   1 17  -24.0  0.270 -9.000 -9.000 -999.  337.     79.9  0.03   0.93
0.60    3.93  114.    7.9  285.3    2.0
 19 01 01   1 18   -6.3  0.099 -9.000 -9.000 -999.  106.     13.6  0.03   0.93
1.00    1.53  116.    7.9  283.8    2.0
 19 01 01   1 19   -6.7  0.101 -9.000 -9.000 -999.   78.     14.0  0.03   0.93
1.00    1.57   98.    7.9  282.0    2.0
 19 01 01   1 20   -3.4  0.072 -9.000 -9.000 -999.   47.     10.0  0.03   0.93
1.00    1.11   98.    7.9  279.8    2.0
 19 01 01   1 21   -5.6  0.092 -9.000 -9.000 -999.   67.     12.5  0.03   0.93
1.00    1.43   25.    7.9  279.8    2.0
 19 01 01   1 22   -7.2  0.105 -9.000 -9.000 -999.   81.     14.3  0.03   0.93
1.00    1.64   39.    7.9  279.2    2.0
 19 01 01   1 23  -16.3  0.161 -9.000 -9.000 -999.  155.     28.5  0.03   0.93
1.00    2.44   49.    7.9  279.2    2.0
 19 01 01   1 24  -25.8  0.257 -9.000 -9.000 -999.  312.     72.5  0.03   0.93
1.00    3.83   69.    7.9  280.3    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 19 01 01 01    7.9 1   25.    1.57   280.4   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
471673.13	3679746.42	102.82370	471681.70	3679746.42	109.33450
471690.27	3679746.42	116.09822	471698.84	3679746.42	123.15446
471707.41	3679746.42	130.57389	471715.98	3679746.42	138.66893
471733.12	3679746.42	157.53906	471741.69	3679746.42	158.92239
471621.71	3679753.09	62.66257	471681.70	3679753.09	97.89489
471690.27	3679753.09	103.57449	471698.84	3679753.09	109.50647
471707.41	3679753.09	115.76663	471724.55	3679753.09	130.24306
471733.12	3679753.09	139.01397	471741.69	3679753.09	149.42318
471621.71	3679759.76	58.01797	471630.28	3679759.76	61.98757
471638.85	3679759.76	66.07749	471698.84	3679759.76	98.22088
471707.41	3679759.76	103.67500	471724.55	3679759.76	116.78632
471733.12	3679759.76	125.51193	471741.69	3679759.76	133.34144

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         471613.14    3679766.43       50.51906                    471621.71
3679766.43       53.87214
         471630.28    3679766.43       57.33580                    471638.85
3679766.43       60.88858
         471647.42    3679766.43       64.53565                    471655.99
3679766.43       68.27197
         471724.55    3679766.43      105.34376                    471733.12
3679766.43      114.04805
         471741.69    3679766.43      118.97297                    471613.14
3679773.10       47.02328
         471621.71    3679773.10       50.07365                    471630.28
3679773.10       53.19425
         471638.85    3679773.10       56.30294                    471647.42
3679773.10       59.48547
         471655.99    3679773.10       62.72843                    471664.56
3679773.10       66.02124
         471673.13    3679773.10       69.39188                    471724.55
3679773.10       95.00664
         471733.12    3679773.10      103.01012                    471741.69
3679773.10      110.65383
         471613.14    3679779.77       43.77765                    471621.71
3679779.77       46.62158
         471630.28    3679779.77       49.48612                    471638.85
3679779.77       52.21674
         471647.42    3679779.77       55.00166                    471655.99
3679779.77       57.82892
         471664.56    3679779.77       60.68311                    471673.13
3679779.77       63.59511
         471681.70    3679779.77       66.58404                    471690.27
3679779.77       69.68617
         471741.69    3679779.77       97.58065                    471613.14
3679786.44       40.79650
         471621.71    3679786.44       43.49095                    471630.28
3679786.44       46.14261
         471638.85    3679786.44       48.55224                    471647.42
3679786.44       50.99708
         471655.99    3679786.44       53.46824                    471664.56
3679786.44       55.94796
         471673.13    3679786.44       58.47053                    471681.70
3679786.44       61.05008
         471690.27    3679786.44       63.72136                    471698.84
3679786.44       66.53653
         471707.41    3679786.44       69.58696                    471621.71
3679793.11       40.64339
         471630.28    3679793.11       43.11903                    471638.85
3679793.11       45.25259
         471647.42    3679793.11       47.40680                    471655.99
3679793.11       49.57050
         471664.56    3679793.11       51.73131                    471673.13
3679793.11       53.92124
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                             *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         471647.42   3679799.78   44.07141   471655.99
3679799.78   45.99951
         471664.56   3679799.78   47.91046   471673.13
3679799.78   49.84032
         471681.70   3679799.78   51.79738   471690.27
3679799.78   53.79436
         471698.84   3679799.78   55.86931   471707.41
3679799.78   58.06487
         471715.98   3679799.78   60.45221   471724.55
3679799.78   63.09211
         471733.12   3679799.78   66.01039   471664.56
3679806.45   43.91536
         471673.13   3679806.45   45.76388   471681.70
3679806.45   47.62606
         471690.27   3679806.45   49.49134   471698.84

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3679806.45       51.39040
         471707.41    3679806.45       53.29727                       471715.98
3679806.45       55.27724
         471724.55    3679806.45       57.38887                       471733.12
3679806.45       59.60037
         471681.70    3679813.12       43.73382                       471690.27
3679813.12       45.54539
         471698.84    3679813.12       47.34150                       471707.41
3679813.12       49.06150
         471715.98    3679813.12       50.69401                       471724.55
3679813.12       52.37279
         471698.84    3679819.79       43.70308                       471707.41
3679819.79       45.28233
         471715.98    3679819.79       46.62131                       471724.55
3679819.79       47.94939
         471741.69    3679819.79       50.33956                       471715.98
3679826.46       42.99208
         471724.55    3679826.46       44.03912                       471741.69
3679826.46       45.79427
         471741.69    3679833.13       41.71773                       471610.88
3679704.21      108.98736
         471609.62    3679708.72       99.03408                       471607.10
3679714.13       88.08562
         471605.83    3679718.27       81.85859                       471603.85
3679722.78       75.36212
         471599.70    3679732.16       64.37321                       471638.47
3679716.65      127.77568
         471636.67    3679721.70      113.51476                       471631.26
3679732.34       89.97798
         471640.27    3679708.72      147.68508                       471612.14
3679699.52      113.50832
         471658.30    3679716.83      153.46186                       471655.42
3679721.34      140.79544
         471653.80    3679725.13      127.88064                       471652.17
3679731.08      112.55244
         471648.93    3679739.37       95.17790                       471680.48
3679737.21      128.16438
         471682.65    3679731.44      147.10753                       471683.55
3679727.47      158.70564
         471694.73    3679738.29      140.19932                       471696.17
3679734.50      154.21594
         471707.89    3679737.03      160.15010                       471736.02
3679749.11      152.51417
         471760.72    3679792.02       90.33436                       471752.37
3679789.67       90.54334
         471749.27    3679806.96       63.00471                       471743.99
3679814.30       54.98568
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471673.13	3679746.42	326.52568	(21122316)	471681.70	3679746.42	327.52773	(21122316)
471690.27	3679746.42	324.20446	(21122316)	471698.84	3679746.42	332.86269	(20070306)
471707.41	3679746.42	355.44801	(20070306)	471715.98	3679746.42	380.72549	(20070306)
471733.12	3679746.42	443.95605	(20070306)	471741.69	3679746.42	449.65514	(20070306)
471621.71	3679753.09	276.25699	(21122316)	471681.70	3679753.09	312.48191	(21122316)
471690.27	3679753.09	308.57827	(21122316)	471698.84	3679753.09	303.01603	(19013018)
471707.41	3679753.09	316.07949	(19013018)	471724.55	3679753.09	362.00774	(20101417)
471733.12	3679753.09	393.17615	(20101417)	471741.69	3679753.09	427.93153	(20070306)
471621.71	3679759.76	265.51270	(21122316)	471630.28	3679759.76	274.08718	(21122316)
471638.85	3679759.76	280.96711	(21122316)	471698.84	3679759.76	284.89088	(19013018)
471707.41	3679759.76	297.65569	(19013018)	471724.55	3679759.76	325.26181	(20101417)
471733.12	3679759.76	356.65495	(20101417)	471741.69	3679759.76	386.38282	(20101417)

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        471613.14   3679766.43      244.34315  (21122316)               471621.71
3679766.43      255.08090  (21122316)
        471630.28   3679766.43      263.05224  (21122316)               471638.85
3679766.43      269.44541  (21122316)
        471647.42   3679766.43      274.97998  (21122316)               471655.99
3679766.43      279.63684  (21122316)
        471724.55   3679766.43      301.72943  (20012318)               471733.12
3679766.43      321.88981  (20101417)
        471741.69   3679766.43      351.01771  (20101417)               471613.14
3679773.10      233.32444  (21122316)
        471621.71   3679773.10      244.09650  (21122316)               471630.28
3679773.10      252.50584  (21122316)
        471638.85   3679773.10      258.51421  (21122316)               471647.42
3679773.10      263.68567  (21122316)
        471655.99   3679773.10      267.78959  (21122316)               471664.56
3679773.10      270.13064  (21122316)
        471673.13   3679773.10      270.53077  (21122316)               471724.55
3679773.10      285.08326  (20012318)
        471733.12   3679773.10      294.19623  (20012318)               471741.69
3679773.10      318.47722  (20101417)
        471613.14   3679779.77      222.27300  (21122316)               471621.71
3679779.77      233.43523  (21122316)
        471630.28   3679779.77      242.43755  (21122316)               471638.85
3679779.77      248.00646  (21122316)
        471647.42   3679779.77      252.68825  (21122316)               471655.99
3679779.77      256.25825  (21122316)
        471664.56   3679779.77      257.86127  (21122316)               471673.13
3679779.77      257.43524  (21122316)
        471681.70   3679779.77      254.46473  (21122316)               471690.27
3679779.77      248.45277  (21122316)
        471741.69   3679779.77      286.78859  (20101417)               471613.14
3679786.44      211.70872  (21122316)
        471621.71   3679786.44      223.30195  (21122316)               471630.28
3679786.44      232.73259  (21122316)
        471638.85   3679786.44      237.84799  (21122316)               471647.42
3679786.44      241.98743  (21122316)
        471655.99   3679786.44      244.95889  (21122316)               471664.56
3679786.44      245.77901  (21122316)
        471673.13   3679786.44      244.58197  (21122316)               471681.70
3679786.44      240.92595  (21122316)
        471690.27   3679786.44      234.42990  (21122316)               471698.84
3679786.44      235.80562  (19010818)
        471707.41   3679786.44      240.43084  (19010818)               471621.71
3679793.11      213.69396  (21122316)
        471630.28   3679793.11      223.42996  (21122316)               471638.85
3679793.11      228.05305  (21122316)
        471647.42   3679793.11      231.64891  (21122316)               471655.99
3679793.11      233.94741  (21122316)
        471664.56   3679793.11      234.02650  (21122316)               471673.13
3679793.11      232.08342  (21122316)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471647.42	3679799.78	220.12825	(21122316)	471655.99	3679799.78	221.81504	(21122316)
471664.56	3679799.78	221.51793	(21122316)	471673.13	3679799.78	219.27410	(21122316)
471681.70	3679799.78	214.72563	(21122316)	471690.27	3679799.78	212.06769	(21020319)
471698.84	3679799.78	215.65165	(19010818)	471707.41	3679799.78	219.86092	(19010818)
471715.98	3679799.78	222.17192	(19010818)	471724.55	3679799.78	229.26734	(21120118)
471733.12	3679799.78	236.67593	(21120118)	471664.56	3679806.45	204.49340	(21122316)
471673.13	3679806.45	203.13314	(21122316)	471681.70	3679806.45	199.62815	(21122316)
471690.27	3679806.45	202.83897	(21020319)	471698.84			

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3679806.45      206.24429  (19010818)
        471707.41   3679806.45      210.56195  (19010818)               471715.98
3679806.45      212.98112  (19010818)
        471724.55   3679806.45      217.94096  (21120118)               471733.12
3679806.45      225.57862  (21120118)
        471681.70   3679813.12      189.35445  (19120320)               471690.27
3679813.12      193.75956  (21020319)
        471698.84   3679813.12      197.28483  (19010818)               471707.41
3679813.12      201.90756  (19010818)
        471715.98   3679813.12      204.51183  (19010818)               471724.55
3679813.12      208.51267  (20122119)
        471698.84   3679819.79      188.81503  (19010818)               471707.41
3679819.79      193.87029  (19010818)
        471715.98   3679819.79      196.67093  (19010818)               471724.55
3679819.79      199.80335  (20122119)
        471741.69   3679819.79      213.74382  (21120118)               471715.98
3679826.46      189.36109  (19010818)
        471724.55   3679826.46      191.92512  (19010818)               471741.69
3679826.46      204.25191  (20122119)
        471741.69   3679833.13      195.65805  (20122119)               471610.88
3679704.21      342.15985  (21011420)
        471609.62   3679708.72      323.14721  (19011806)               471607.10
3679714.13      303.43149  (19011806)
        471605.83   3679718.27      290.06514  (19011806)               471603.85
3679722.78      276.06029  (21011624)
        471599.70   3679732.16      252.76294  (20011919)               471638.47
3679716.65      359.31681  (20070306)
        471636.67   3679721.70      347.70647  (21122316)               471631.26
3679732.34      323.52614  (21122316)
        471640.27   3679708.72      419.25471  (20070306)               471612.14
3679699.52      351.11686  (21011420)
        471658.30   3679716.83      430.59473  (20070306)               471655.42
3679721.34      395.83267  (20070306)
        471653.80   3679725.13      355.64471  (21122316)               471652.17
3679731.08      344.03013  (21122316)
        471648.93   3679739.37      326.29072  (21122316)               471680.48
3679737.21      350.42241  (20070306)
        471682.65   3679731.44      409.61082  (20070306)               471683.55
3679727.47      443.03794  (20070306)
        471694.73   3679738.29      386.40786  (20070306)               471696.17
3679734.50      430.26019  (20070306)
        471707.89   3679737.03      448.21968  (20070306)               471736.02
3679749.11      430.51278  (20070306)
        471760.72   3679792.02      330.40192  (19042318)               471752.37
3679789.67      295.43133  (20012318)
        471749.27   3679806.96      245.16635  (20012318)               471743.99
3679814.30      224.75233  (21120118)
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	160.15010 AT (471707.89, 3679737.03, 30.38, 42.69, 0.00)	DC	
	2ND HIGHEST VALUE IS	158.92239 AT (471741.69, 3679746.42, 30.86, 39.86, 0.00)	DC	
	3RD HIGHEST VALUE IS	158.70564 AT (471683.55, 3679727.47, 30.16, 49.92, 0.00)	DC	
	4TH HIGHEST VALUE IS	157.53906 AT (471733.12, 3679746.42, 30.94, 39.86, 0.00)	DC	
	5TH HIGHEST VALUE IS	154.21594 AT (471696.17, 3679734.50, 30.29, 49.92, 0.00)	DC	
	6TH HIGHEST VALUE IS	153.46186 AT (471658.30, 3679716.83, 30.23, 49.92, 0.00)	DC	
	7TH HIGHEST VALUE IS	152.51417 AT (471736.02, 3679749.11, 30.92, 39.86, 0.00)	DC	
	8TH HIGHEST VALUE IS	149.42318 AT (471741.69, 3679753.09, 30.90, 39.86, 0.00)	DC	
	9TH HIGHEST VALUE IS	147.68508 AT (471640.27, 3679708.72, 30.29, 49.92, 0.00)	DC	
	10TH HIGHEST VALUE IS	147.10753 AT (471682.65, 3679731.44, 30.22, 49.92, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH VALUE IS	449.65514	ON 20070306: AT (471741.69, 3679746.42, 30.86, 39.86, 0.00)	DC	

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1272 Informational Message(s)

 A Total of   26304 Hours Were Processed

 A Total of   701 Calm Hours Identified

 A Total of   571 Missing Hours Identified (2.17 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

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   ********   WARNING MESSAGES   ********
ME W186     650       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     650       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
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*HARP - HRACalc v22118 2/8/2023 4:51:39 PM - Cancer Risk - Input File: C:\Users\enuno\OneDrive -

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
157	ALL		471814.3	3679823	1.81E-05	1.72YrCanc	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL		471785.1	3679689	1.77E-05	1.72YrCanc	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	ALL		471789.5	3679690	1.69E-05	1.72YrCanc	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		471814.3	3679723	1.59E-05	1.72YrCanc	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		471778.1	3679855	1.58E-05	1.72YrCanc	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL		471828.2	3679741	1.55E-05	1.72YrCanc	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		471815	3679708	1.44E-05	1.72YrCanc	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL		471746.9	3679862	1.41E-05	1.72YrCanc	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL		471591.2	3679793	1.34E-05	1.72YrCanc	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		471816.8	3679690	1.28E-05	1.72YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL		471794	3679864	1.28E-05	1.72YrCanc	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL		471814.3	3679673	1.16E-05	1.72YrCanc	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		471864.3	3679773	1.14E-05	1.72YrCanc	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		471864.3	3679823	1.14E-05	1.72YrCanc	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		471783.2	3679647	1.13E-05	1.72YrCanc	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL		471863.5	3679757	1.12E-05	1.72YrCanc	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL		471852.6	3679840	1.11E-05	1.72YrCanc	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL		471861.9	3679740	1.08E-05	1.72YrCanc	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL		471784.6	3679641	1.03E-05	1.72YrCanc	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		471536.2	3679727	1.02E-05	1.72YrCanc	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL		471814.3	3679873	1.01E-05	1.72YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		471528.3	3679706	1.01E-05	1.72YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		471796.6	3679646	1.01E-05	1.72YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL		471861.9	3679722	1.01E-05	1.72YrCanc	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		471667.9	3679854	9.92E-06	1.72YrCanc	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		471651.3	3679845	9.88E-06	1.72YrCanc	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		471541.6	3679747	9.64E-06	1.72YrCanc	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		471764.3	3679623	9.55E-06	1.72YrCanc	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL		471868.8	3679844	9.50E-06	1.72YrCanc	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		471519.5	3679683	9.49E-06	1.72YrCanc	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		471684.1	3679863	9.21E-06	1.72YrCanc	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL		471514.3	3679673	9.16E-06	1.72YrCanc	9.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		471631.2	3679841	9.13E-06	1.72YrCanc	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL		471863.1	3679702	9.07E-06	1.72YrCanc	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL		471718	3679877	9.03E-06	1.72YrCanc	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL		471834	3679876	8.98E-06	1.72YrCanc	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		471511.2	3679665	8.96E-06	1.72YrCanc	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		471704.1	3679872	8.88E-06	1.72YrCanc	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		471514.3	3679723	8.68E-06	1.72YrCanc	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		471612.1	3679833	8.51E-06	1.72YrCanc	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		471820.3	3679645	8.49E-06	1.72YrCanc	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL		471891	3679759	8.49E-06	1.72YrCanc	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL		471890.6	3679781	8.41E-06	1.72YrCanc	8.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		471582.7	3679816	8.35E-06	1.72YrCanc	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL		471863.1	3679685	8.28E-06	1.72YrCanc	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		471538.1	3679768	8.23E-06	1.72YrCanc	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL		471891.8	3679740	8.21E-06	1.72YrCanc	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		471498	3679649	7.94E-06	1.72YrCanc	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL		471852.6	3679881	7.79E-06	1.72YrCanc	7.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL		471888.2	3679851	7.67E-06	1.72YrCanc	7.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		471772.5	3679607	7.57E-06	1.72YrCanc	7.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL		471863.1	3679667	7.43E-06	1.72YrCanc	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL		471891.8	3679705	7.31E-06	1.72YrCanc	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		471797	3679616	7.30E-06	1.72YrCanc	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		471738.6	3679591	7.27E-06	1.72YrCanc	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

26	ALL	471536.2	3679789	7.23E-06	1.72YrCanc	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	471490.6	3679630	7.23E-06	1.72YrCanc	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	471914.3	3679773	7.22E-06	1.72YrCanc	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	471814.3	3679623	7.11E-06	1.72YrCanc	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	471755.6	3679593	7.05E-06	1.72YrCanc	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	471664.3	3679573	7.01E-06	1.72YrCanc	7.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	471477.8	3679709	6.88E-06	1.72YrCanc	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	471719.8	3679582	6.87E-06	1.72YrCanc	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	471564.3	3679823	6.84E-06	1.72YrCanc	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	471914.3	3679723	6.78E-06	1.72YrCanc	6.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	471484.4	3679733	6.70E-06	1.72YrCanc	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	471705	3679577	6.70E-06	1.72YrCanc	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	471514.3	3679773	6.69E-06	1.72YrCanc	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	471893.8	3679686	6.66E-06	1.72YrCanc	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	471467.9	3679692	6.65E-06	1.72YrCanc	6.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	471815.4	3679616	6.64E-06	1.72YrCanc	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	471464.3	3679673	6.63E-06	1.72YrCanc	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	471766.5	3679894	6.58E-06	1.72YrCanc	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	471865.1	3679648	6.47E-06	1.72YrCanc	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	471479.9	3679615	6.44E-06	1.72YrCanc	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	471686.9	3679569	6.30E-06	1.72YrCanc	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	471714.3	3679573	6.25E-06	1.72YrCanc	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	471914.3	3679823	6.19E-06	1.72YrCanc	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	471686.9	3679567	6.16E-06	1.72YrCanc	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	471535.7	3679811	6.15E-06	1.72YrCanc	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	471485	3679753	6.07E-06	1.72YrCanc	6.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	471872.1	3679897	6.01E-06	1.72YrCanc	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	471893.8	3679666	5.99E-06	1.72YrCanc	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	471464.3	3679623	5.98E-06	1.72YrCanc	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	471447.5	3679652	5.95E-06	1.72YrCanc	5.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	471464.3	3679723	5.89E-06	1.72YrCanc	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	471783.9	3679902	5.85E-06	1.72YrCanc	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	471591.7	3679546	5.80E-06	1.72YrCanc	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	471862.7	3679630	5.75E-06	1.72YrCanc	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	471914.3	3679873	5.71E-06	1.72YrCanc	5.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	471672.8	3679557	5.68E-06	1.72YrCanc	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	471914.3	3679673	5.58E-06	1.72YrCanc	5.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	471470.1	3679593	5.41E-06	1.72YrCanc	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	471895.4	3679648	5.40E-06	1.72YrCanc	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	471887.9	3679902	5.35E-06	1.72YrCanc	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	471485	3679777	5.29E-06	1.72YrCanc	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	471437	3679633	5.28E-06	1.72YrCanc	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	471641	3679543	5.12E-06	1.72YrCanc	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	471862.3	3679612	5.09E-06	1.72YrCanc	5.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	471895	3679631	4.88E-06	1.72YrCanc	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	471414.3	3679623	4.78E-06	1.72YrCanc	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	471627.3	3679532	4.71E-06	1.72YrCanc	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	471484.4	3679798	4.69E-06	1.72YrCanc	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	471464.3	3679773	4.62E-06	1.72YrCanc	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	471740.9	3679931	4.59E-06	1.72YrCanc	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	471464.3	3679573	4.59E-06	1.72YrCanc	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	471426.4	3679610	4.59E-06	1.72YrCanc	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	471964.3	3679773	4.58E-06	1.72YrCanc	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	471964.3	3679723	4.53E-06	1.72YrCanc	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	471797.9	3679562	4.52E-06	1.72YrCanc	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	471458.8	3679574	4.51E-06	1.72YrCanc	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	471815.3	3679569	4.51E-06	1.72YrCanc	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

185	ALL	471814.3	3679923	4.47E-06	1.72YrCanc	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	471414.3	3679673	4.46E-06	1.72YrCanc	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	471606.2	3679523	4.41E-06	1.72YrCanc	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	471614.3	3679523	4.41E-06	1.72YrCanc	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	471758.5	3679940	4.40E-06	1.72YrCanc	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	471730.6	3679538	4.40E-06	1.72YrCanc	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	471895	3679612	4.37E-06	1.72YrCanc	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	471914.3	3679623	4.29E-06	1.72YrCanc	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	471976.8	3679760	4.27E-06	1.72YrCanc	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	471964.3	3679823	4.26E-06	1.72YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	471664.3	3679523	4.25E-06	1.72YrCanc	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	471978.1	3679775	4.22E-06	1.72YrCanc	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	471980.8	3679738	4.17E-06	1.72YrCanc	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	471837.6	3679926	4.17E-06	1.72YrCanc	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	471977.5	3679793	4.16E-06	1.72YrCanc	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	471772.3	3679945	4.14E-06	1.72YrCanc	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	471414.6	3679594	4.13E-06	1.72YrCanc	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	471484.4	3679820	4.12E-06	1.72YrCanc	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	471696.6	3679523	4.08E-06	1.72YrCanc	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	471964.3	3679673	4.03E-06	1.72YrCanc	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	471979.5	3679813	4.01E-06	1.72YrCanc	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	471914.3	3679923	4.00E-06	1.72YrCanc	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	471449.5	3679556	3.97E-06	1.72YrCanc	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	471857.1	3679933	3.97E-06	1.72YrCanc	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	471414.3	3679723	3.93E-06	1.72YrCanc	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	471978.1	3679830	3.90E-06	1.72YrCanc	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	471964.3	3679873	3.89E-06	1.72YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	471591.5	3679506	3.88E-06	1.72YrCanc	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	471863.6	3679568	3.79E-06	1.72YrCanc	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	471940	3679914	3.78E-06	1.72YrCanc	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	471977.5	3679852	3.75E-06	1.72YrCanc	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	471414.3	3679573	3.75E-06	1.72YrCanc	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	471700.2	3679512	3.73E-06	1.72YrCanc	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	471795.6	3679954	3.69E-06	1.72YrCanc	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	471714	3679512	3.66E-06	1.72YrCanc	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	471927.5	3679926	3.66E-06	1.72YrCanc	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	471464.3	3679823	3.64E-06	1.72YrCanc	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	471727.9	3679512	3.62E-06	1.72YrCanc	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	471741.7	3679512	3.59E-06	1.72YrCanc	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	471755.6	3679512	3.58E-06	1.72YrCanc	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	471682.9	3679945	3.57E-06	1.72YrCanc	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	471483.1	3679842	3.57E-06	1.72YrCanc	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	472014.3	3679723	3.54E-06	1.72YrCanc	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	472014.3	3679773	3.52E-06	1.72YrCanc	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	471982.1	3679868	3.50E-06	1.72YrCanc	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	471611.5	3679916	3.49E-06	1.72YrCanc	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	471414.3	3679773	3.48E-06	1.72YrCanc	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	471662.6	3679497	3.48E-06	1.72YrCanc	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	471441.7	3679535	3.47E-06	1.72YrCanc	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	471364.3	3679573	3.47E-06	1.72YrCanc	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	471808	3679959	3.46E-06	1.72YrCanc	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	471769.4	3679512	3.44E-06	1.72YrCanc	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	471364.3	3679673	3.42E-06	1.72YrCanc	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	471661	3679940	3.39E-06	1.72YrCanc	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	471364.3	3679623	3.38E-06	1.72YrCanc	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	471591.1	3679911	3.37E-06	1.72YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	471625.3	3679922	3.37E-06	1.72YrCanc	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

312	ALL	471646.7	3679933	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	471863.6	3679548	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	471898.4	3679569	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	472014.3	3679823	3.34E-06	1.72YrCanc	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	471825.1	3679967	3.33E-06	1.72YrCanc	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	471783.3	3679512	3.31E-06	1.72YrCanc	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	471643.6	3679489	3.29E-06	1.72YrCanc	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	471571.1	3679901	3.28E-06	1.72YrCanc	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	471981.4	3679889	3.28E-06	1.72YrCanc	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	471700.2	3679487	3.27E-06	1.72YrCanc	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	471845.1	3679971	3.26E-06	1.72YrCanc	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	471797.1	3679512	3.22E-06	1.72YrCanc	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	471719.5	3679963	3.22E-06	1.72YrCanc	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	471614.3	3679473	3.21E-06	1.72YrCanc	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	471755.6	3679487	3.19E-06	1.72YrCanc	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	471364.3	3679723	3.18E-06	1.72YrCanc	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	471864.3	3679973	3.17E-06	1.72YrCanc	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	471664.3	3679473	3.17E-06	1.72YrCanc	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	471741.7	3679487	3.15E-06	1.72YrCanc	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	471714	3679487	3.14E-06	1.72YrCanc	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	471964.3	3679923	3.14E-06	1.72YrCanc	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	471811	3679512	3.14E-06	1.72YrCanc	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	471736.2	3679968	3.13E-06	1.72YrCanc	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	472032.1	3679813	3.11E-06	1.72YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	472026.9	3679831	3.11E-06	1.72YrCanc	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	471913.6	3679956	3.10E-06	1.72YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	471752.8	3679974	3.10E-06	1.72YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	471727.9	3679487	3.09E-06	1.72YrCanc	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	471483.1	3679868	3.08E-06	1.72YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	471824.8	3679512	3.07E-06	1.72YrCanc	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	471769.4	3679487	3.06E-06	1.72YrCanc	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	471861.7	3679980	3.04E-06	1.72YrCanc	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	471895.3	3679548	3.02E-06	1.72YrCanc	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	472026.9	3679850	2.98E-06	1.72YrCanc	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	471700.2	3679462	2.98E-06	1.72YrCanc	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	471414.3	3679823	2.96E-06	1.72YrCanc	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	471985.4	3679906	2.95E-06	1.72YrCanc	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	472014.3	3679873	2.95E-06	1.72YrCanc	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	471314.3	3679623	2.92E-06	1.72YrCanc	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	471770.4	3679983	2.89E-06	1.72YrCanc	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	471714	3679462	2.89E-06	1.72YrCanc	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	472064.3	3679723	2.89E-06	1.72YrCanc	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	472064.3	3679773	2.87E-06	1.72YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	471926.8	3679963	2.87E-06	1.72YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	471783.3	3679487	2.87E-06	1.72YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	471914.3	3679973	2.86E-06	1.72YrCanc	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	471790.4	3679988	2.85E-06	1.72YrCanc	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	471852.5	3679512	2.85E-06	1.72YrCanc	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	471741.7	3679462	2.85E-06	1.72YrCanc	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	471727.9	3679462	2.83E-06	1.72YrCanc	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	471464.3	3679873	2.82E-06	1.72YrCanc	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	471797.1	3679487	2.81E-06	1.72YrCanc	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	471755.6	3679462	2.81E-06	1.72YrCanc	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	471364.3	3679773	2.80E-06	1.72YrCanc	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	472028.8	3679870	2.80E-06	1.72YrCanc	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	471314.3	3679673	2.79E-06	1.72YrCanc	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	471381	3679527	2.79E-06	1.72YrCanc	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1287	ALL	471811	3679487	2.76E-06	1.72YrCanc	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	471824.8	3679487	2.75E-06	1.72YrCanc	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	471769.4	3679462	2.74E-06	1.72YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	471808.9	3679994	2.74E-06	1.72YrCanc	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	471866.4	3679512	2.73E-06	1.72YrCanc	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	472068.3	3679811	2.71E-06	1.72YrCanc	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	472064.3	3679823	2.68E-06	1.72YrCanc	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	472027.5	3679885	2.68E-06	1.72YrCanc	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	471988.7	3679924	2.67E-06	1.72YrCanc	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	471783.3	3679462	2.63E-06	1.72YrCanc	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	471529.7	3679921	2.63E-06	1.72YrCanc	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	471880.2	3679512	2.62E-06	1.72YrCanc	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	471632.9	3679974	2.61E-06	1.72YrCanc	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	471314.3	3679573	2.59E-06	1.72YrCanc	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	471828.4	3680004	2.58E-06	1.72YrCanc	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	471700.2	3679437	2.57E-06	1.72YrCanc	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	471947.2	3679974	2.56E-06	1.72YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	471314.3	3679723	2.56E-06	1.72YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	471852.5	3679487	2.56E-06	1.72YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	472025.5	3679904	2.55E-06	1.72YrCanc	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	471797.1	3679462	2.54E-06	1.72YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	471714	3679437	2.54E-06	1.72YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	471894.1	3679512	2.53E-06	1.72YrCanc	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	471583	3679956	2.52E-06	1.72YrCanc	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	471727.9	3679437	2.51E-06	1.72YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	471597.3	3679962	2.51E-06	1.72YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	472014.3	3679923	2.49E-06	1.72YrCanc	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	471414.3	3679873	2.48E-06	1.72YrCanc	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	471741.7	3679437	2.47E-06	1.72YrCanc	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	471964.3	3679973	2.46E-06	1.72YrCanc	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	471811	3679462	2.46E-06	1.72YrCanc	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	471843.2	3680010	2.45E-06	1.72YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	471907.9	3679512	2.45E-06	1.72YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	471701	3680006	2.45E-06	1.72YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	472074.3	3679847	2.44E-06	1.72YrCanc	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	471735.9	3680018	2.44E-06	1.72YrCanc	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	471755.6	3679437	2.43E-06	1.72YrCanc	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	471364.3	3679823	2.43E-06	1.72YrCanc	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	471824.8	3679462	2.43E-06	1.72YrCanc	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	471866.4	3679487	2.42E-06	1.72YrCanc	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	471720.7	3680010	2.41E-06	1.72YrCanc	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	471764.3	3680023	2.40E-06	1.72YrCanc	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	471664.3	3679423	2.40E-06	1.72YrCanc	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	471264.3	3679673	2.39E-06	1.72YrCanc	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	471769.4	3679437	2.39E-06	1.72YrCanc	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	471614.3	3679423	2.37E-06	1.72YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	472114.3	3679723	2.37E-06	1.72YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	471814.3	3680023	2.36E-06	1.72YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	472114.3	3679773	2.35E-06	1.72YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	472064.3	3679873	2.35E-06	1.72YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	471997.2	3679947	2.35E-06	1.72YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	471783.3	3679437	2.33E-06	1.72YrCanc	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	471880.2	3679487	2.33E-06	1.72YrCanc	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	471264.3	3679623	2.32E-06	1.72YrCanc	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	471531.2	3679940	2.31E-06	1.72YrCanc	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	471664.3	3680023	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	471771.4	3680031	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

65	ALL	471564.3	3679423	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	471714.3	3680023	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	471852.5	3679462	2.29E-06	1.72YrCanc	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	471314.3	3679773	2.29E-06	1.72YrCanc	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	471797.1	3679437	2.28E-06	1.72YrCanc	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	472078.9	3679866	2.27E-06	1.72YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	471864.3	3680023	2.27E-06	1.72YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	471314.3	3679523	2.27E-06	1.72YrCanc	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	471894.1	3679487	2.25E-06	1.72YrCanc	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	471935.6	3679512	2.25E-06	1.72YrCanc	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	471464.3	3679923	2.25E-06	1.72YrCanc	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	471479.1	3679922	2.24E-06	1.72YrCanc	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	471355.9	3679488	2.23E-06	1.72YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	471700.2	3679412	2.22E-06	1.72YrCanc	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	471811	3679437	2.22E-06	1.72YrCanc	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	472114.3	3679823	2.21E-06	1.72YrCanc	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	471866.4	3679462	2.21E-06	1.72YrCanc	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	471714	3679412	2.21E-06	1.72YrCanc	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	471973.5	3679993	2.20E-06	1.72YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	471786.6	3680039	2.20E-06	1.72YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	471907.9	3679487	2.20E-06	1.72YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	471264.3	3679573	2.19E-06	1.72YrCanc	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	471764.3	3680073	2.18E-06	1.72YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	471727.9	3679412	2.18E-06	1.72YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	471364.3	3679873	2.17E-06	1.72YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	471824.8	3679437	2.17E-06	1.72YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	471314.3	3679823	2.17E-06	1.72YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	471949.5	3679512	2.17E-06	1.72YrCanc	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	471741.7	3679412	2.16E-06	1.72YrCanc	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	471264.3	3679723	2.15E-06	1.72YrCanc	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	472080.9	3679882	2.14E-06	1.72YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	471914.3	3680023	2.14E-06	1.72YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	471805	3680047	2.13E-06	1.72YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	472014.4	3679961	2.13E-06	1.72YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	471755.6	3679412	2.13E-06	1.72YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	471880.2	3679462	2.12E-06	1.72YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	471814.3	3680073	2.12E-06	1.72YrCanc	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	471769.4	3679412	2.09E-06	1.72YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	471963.3	3679512	2.09E-06	1.72YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	471414.3	3679923	2.09E-06	1.72YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	471826.7	3680054	2.08E-06	1.72YrCanc	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	472064.3	3679923	2.08E-06	1.72YrCanc	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	471992	3679995	2.07E-06	1.72YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	471894.1	3679462	2.06E-06	1.72YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	471852.5	3679437	2.05E-06	1.72YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	472014.3	3679973	2.05E-06	1.72YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	471783.3	3679412	2.05E-06	1.72YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	471346.5	3679471	2.04E-06	1.72YrCanc	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	471530.2	3679963	2.03E-06	1.72YrCanc	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	471935.6	3679487	2.02E-06	1.72YrCanc	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	472082.2	3679905	2.02E-06	1.72YrCanc	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	471964.3	3680023	2.01E-06	1.72YrCanc	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	471797.1	3679412	2.01E-06	1.72YrCanc	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	471907.9	3679462	2.00E-06	1.72YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	471478.4	3679942	2.00E-06	1.72YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	471866.4	3679437	1.99E-06	1.72YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	471264.3	3679773	1.99E-06	1.72YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

81	ALL	471264.3	3679523	1.98E-06	1.72YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	472114.3	3679873	1.97E-06	1.72YrCanc	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	471811	3679412	1.97E-06	1.72YrCanc	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	471714.3	3680073	1.96E-06	1.72YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	471949.5	3679487	1.96E-06	1.72YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	472032.1	3679970	1.95E-06	1.72YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	471700.2	3679387	1.95E-06	1.72YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	471714	3679387	1.93E-06	1.72YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	471214.3	3679623	1.93E-06	1.72YrCanc	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	472164.3	3679723	1.92E-06	1.72YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	471824.8	3679412	1.92E-06	1.72YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	471880.2	3679437	1.92E-06	1.72YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	471314.3	3679873	1.92E-06	1.72YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	471727.9	3679387	1.92E-06	1.72YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	471214.3	3679673	1.91E-06	1.72YrCanc	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	471963.3	3679487	1.90E-06	1.72YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	471741.7	3679387	1.90E-06	1.72YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	471664.3	3680073	1.89E-06	1.72YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	472164.3	3679773	1.89E-06	1.72YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	472164.3	3679673	1.88E-06	1.72YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	471992.9	3679503	1.88E-06	1.72YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	471214.3	3679573	1.87E-06	1.72YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	471755.6	3679387	1.87E-06	1.72YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	472088.1	3679929	1.87E-06	1.72YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	471894.1	3679437	1.86E-06	1.72YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	471329	3679456	1.85E-06	1.72YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	471935.6	3679462	1.85E-06	1.72YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	471769.4	3679387	1.85E-06	1.72YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	471214.3	3679723	1.84E-06	1.72YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	471664.3	3679373	1.84E-06	1.72YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	471852.5	3679412	1.83E-06	1.72YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	471614.3	3679373	1.83E-06	1.72YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	471531.6	3679986	1.82E-06	1.72YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	472173.3	3679739	1.82E-06	1.72YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	471783.3	3679387	1.82E-06	1.72YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	471907.9	3679437	1.81E-06	1.72YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	471464.3	3679973	1.81E-06	1.72YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	472164.3	3679823	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	471264.3	3679823	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	471764.3	3680123	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	471981.5	3679482	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	471797.1	3679387	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	471866.4	3679412	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	471949.5	3679462	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	472178.8	3679759	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	471477.1	3679966	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	471814.3	3680123	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	471364.3	3679923	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	472019.7	3679505	1.77E-06	1.72YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	471864.3	3680073	1.76E-06	1.72YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	471614.3	3680023	1.76E-06	1.72YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	472024.2	3680009	1.76E-06	1.72YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	471811	3679387	1.75E-06	1.72YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	471315	3679447	1.75E-06	1.72YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	472180.7	3679780	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	471880.2	3679412	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	471864.3	3680123	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

214	ALL	472014.3	3680023	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	471214.3	3679523	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	471414.3	3679973	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	472064.3	3679973	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	472114.3	3679923	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	471963.3	3679462	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	471700.2	3679362	1.72E-06	1.72YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	471264.3	3679473	1.72E-06	1.72YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	471824.8	3679387	1.72E-06	1.72YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	471526.9	3680007	1.71E-06	1.72YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	471714	3679362	1.71E-06	1.72YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	471214.3	3679773	1.70E-06	1.72YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	472164.3	3679623	1.70E-06	1.72YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	472182.6	3679798	1.70E-06	1.72YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	471727.9	3679362	1.70E-06	1.72YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	471935.6	3679437	1.70E-06	1.72YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	471264.3	3679873	1.69E-06	1.72YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	471894.1	3679412	1.69E-06	1.72YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	471764.3	3680173	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	471741.7	3679362	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	472200.3	3679673	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	471477.1	3679983	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	472181.6	3679816	1.67E-06	1.72YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	471755.6	3679362	1.66E-06	1.72YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	471980	3679459	1.66E-06	1.72YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	471164.3	3679623	1.65E-06	1.72YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	471852.5	3679387	1.65E-06	1.72YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	471907.9	3679412	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	471769.4	3679362	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	471949.5	3679437	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	471814.3	3680173	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	471164.3	3679573	1.62E-06	1.72YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	471783.3	3679362	1.62E-06	1.72YrCanc	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	471314.3	3679923	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	472014.3	3679473	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	471866.4	3679387	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	471914.3	3680073	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	471164.3	3679673	1.60E-06	1.72YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	472214.2	3679734	1.60E-06	1.72YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	471797.1	3679362	1.60E-06	1.72YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	471289.8	3679435	1.60E-06	1.72YrCanc	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	471963.3	3679437	1.59E-06	1.72YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	471214.3	3679823	1.58E-06	1.72YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	472044	3680020	1.58E-06	1.72YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	471564.3	3680023	1.58E-06	1.72YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	471475.8	3680006	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	471811	3679362	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	471880.2	3679387	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	472223.5	3679673	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	471864.3	3680173	1.56E-06	1.72YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	471531.2	3680033	1.56E-06	1.72YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	471714.3	3680123	1.56E-06	1.72YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	471264.3	3679923	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	471935.6	3679412	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	471214.3	3679473	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	471824.8	3679362	1.54E-06	1.72YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	471700.2	3679337	1.54E-06	1.72YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1220	ALL	471894.1	3679387	1.53E-06	1.72YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	471714	3679337	1.53E-06	1.72YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	471464.3	3680023	1.52E-06	1.72YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	471472.5	3680028	1.52E-06	1.72YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	471727.9	3679337	1.52E-06	1.72YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	472192.8	3679854	1.51E-06	1.72YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	472226.3	3679774	1.51E-06	1.72YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	471949.5	3679412	1.50E-06	1.72YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	471741.7	3679337	1.50E-06	1.72YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	471164.3	3679723	1.50E-06	1.72YrCanc	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	471907.9	3679387	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	472114.3	3679523	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	472114.3	3679973	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	472022.6	3679456	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	471279.9	3679421	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	471755.6	3679337	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	471852.5	3679362	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	471991	3679434	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	472229.1	3679791	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	472202.1	3679604	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	471769.4	3679337	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	471414.3	3680023	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	471664.3	3680123	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	471214.3	3679873	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	472223.5	3679631	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	472192.8	3679870	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	471364.3	3679973	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	471963.3	3679412	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	471664.3	3679323	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	471264.3	3679423	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	472258	3679719	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	471783.3	3679337	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	471614.3	3679323	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	472064.3	3680023	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	471866.4	3679362	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	472259.8	3679739	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	472258.9	3679756	1.44E-06	1.72YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	471797.1	3679337	1.44E-06	1.72YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	472064.3	3679473	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	471614.3	3680073	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	472234.7	3679809	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	471564.3	3679323	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	471880.2	3679362	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	472260.8	3679678	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	471935.6	3679387	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	472256.1	3679782	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	471811	3679337	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	471164.3	3679773	1.41E-06	1.72YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	471764.3	3680223	1.40E-06	1.72YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	472014.3	3680073	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	471824.8	3679337	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	471894.1	3679362	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	471514.3	3680073	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	471514.3	3679323	1.38E-06	1.72YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	471700.2	3679312	1.38E-06	1.72YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	472056.9	3679455	1.38E-06	1.72YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	471949.5	3679387	1.38E-06	1.72YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1154	ALL	471714	3679312	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	471255.4	3679409	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	471814.3	3680223	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	471964.3	3680073	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	471727.9	3679312	1.36E-06	1.72YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	472236.6	3679831	1.36E-06	1.72YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	471907.9	3679362	1.36E-06	1.72YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	471214.3	3679923	1.36E-06	1.72YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	472014.3	3679423	1.36E-06	1.72YrCanc	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	471164.3	3679823	1.35E-06	1.72YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	471741.7	3679312	1.35E-06	1.72YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	471564.3	3680073	1.35E-06	1.72YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	471852.5	3679337	1.35E-06	1.72YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	472201.2	3679893	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	472264.5	3679802	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	471963.3	3679387	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	471755.6	3679312	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	471981.4	3679396	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	471214.3	3679423	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	471464.3	3680073	1.33E-06	1.72YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	471769.4	3679312	1.33E-06	1.72YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	472264.5	3679633	1.33E-06	1.72YrCanc	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	471866.4	3679337	1.32E-06	1.72YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	471564.3	3680123	1.32E-06	1.72YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	471783.3	3679312	1.31E-06	1.72YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	472164.3	3679523	1.31E-06	1.72YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	471364.3	3680023	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	471914.3	3680123	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	471797.1	3679312	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	471935.6	3679362	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	471864.3	3680223	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	471880.2	3679337	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	471232.6	3679404	1.29E-06	1.72YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	472249.6	3679598	1.29E-06	1.72YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	472267.3	3679822	1.29E-06	1.72YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	472303.6	3679717	1.29E-06	1.72YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	471811	3679312	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	471564.3	3680173	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	472301.7	3679739	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	472202.1	3679915	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	472114.3	3680023	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	472114.3	3679473	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	471894.1	3679337	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	471949.5	3679362	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	472002	3679392	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	471824.8	3679312	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	472245.9	3679864	1.26E-06	1.72YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	472164.3	3679973	1.26E-06	1.72YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	472306.4	3679760	1.26E-06	1.72YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	472064.3	3680073	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	471164.3	3679873	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	471700.2	3679287	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	471414.3	3680073	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	471907.9	3679337	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	472270.1	3679839	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	471980.9	3679374	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	471714	3679287	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

191	ALL	471314.3	3679973	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	471727.9	3679287	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	471963.3	3679362	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	472307.3	3679779	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	471852.5	3679312	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	472064.3	3679423	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	471741.7	3679287	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	472244.9	3679885	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	471210.4	3679399	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	471614.3	3680123	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	472312.9	3679670	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	471755.6	3679287	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	471866.4	3679312	1.21E-06	1.72YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	472027.2	3679392	1.21E-06	1.72YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	471769.4	3679287	1.21E-06	1.72YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	471714.3	3680173	1.20E-06	1.72YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	471783.3	3679287	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	471935.6	3679337	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	471664.3	3679273	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	471614.3	3679273	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	472272.9	3679861	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	471880.2	3679312	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	472313.8	3679796	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	471664.3	3680173	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	471272.1	3679356	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	471797.1	3679287	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	472247.7	3679905	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	471188.2	3679401	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	471964.3	3680123	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	471564.3	3679273	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	471164.3	3679923	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	471811	3679287	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	471949.5	3679337	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	471894.1	3679312	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	472303.6	3679624	1.16E-06	1.72YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	471824.8	3679287	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	472284.1	3679593	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	471980.9	3679348	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	472164.3	3679473	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	471907.9	3679312	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	471514.3	3679273	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	472314.8	3679821	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	471963.3	3679337	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	471700.2	3679262	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	471714	3679262	1.13E-06	1.72YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	471727.9	3679262	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	471852.5	3679287	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	472370.6	3679781	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	471164.2	3679401	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	472274.7	3679896	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	472052.3	3679383	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	471741.7	3679262	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	472347.4	3679676	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	472369.7	3679741	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	471755.6	3679262	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	472114.3	3679423	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	471866.4	3679287	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1558	ALL	471251.5	3679342	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	472114.3	3680073	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	471935.6	3679312	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	471769.4	3679262	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	472318.5	3679842	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	471783.3	3679262	1.09E-06	1.72YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	471880.2	3679287	1.09E-06	1.72YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	471322.6	3679316	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	471797.1	3679262	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	472164.3	3680023	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	471223.3	3679348	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	471949.5	3679312	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	471303.6	3679316	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	471894.1	3679287	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	471914.3	3680173	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	471811	3679262	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	472009.5	3679340	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	471140.3	3679399	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	472321.3	3679860	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	471614.3	3680173	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	471824.8	3679262	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	471963.3	3679312	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	471907.9	3679287	1.05E-06	1.72YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	472139.6	3679421	1.05E-06	1.72YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	472047.8	3679355	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	472014.3	3680123	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	471700.2	3679237	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	472356.7	3679636	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	472399.5	3679757	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	471714	3679237	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	471200.6	3679347	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	471664.3	3680223	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	471852.5	3679262	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	471727.9	3679237	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	471259.3	3679315	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	471741.7	3679237	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	472333.4	3679590	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	472398.6	3679720	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	471866.4	3679262	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	471935.6	3679287	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	471755.6	3679237	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	471769.4	3679237	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	472192	3679446	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	471880.2	3679262	1.00E-06	1.72YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	471240.3	3679316	1.00E-06	1.72YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	471783.3	3679237	1.00E-06	1.72YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	472164.3	3679423	9.99E-07	1.72YrCanc	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	471179.3	3679348	9.99E-07	1.72YrCanc	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	471949.5	3679287	9.97E-07	1.72YrCanc	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	471320.2	3679287	9.97E-07	1.72YrCanc	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	471614.3	3679223	9.96E-07	1.72YrCanc	9.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	472325	3679895	9.95E-07	1.72YrCanc	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	471797.1	3679237	9.92E-07	1.72YrCanc	9.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	472041.5	3679333	9.88E-07	1.72YrCanc	9.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	471894.1	3679262	9.86E-07	1.72YrCanc	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	471564.3	3679223	9.85E-07	1.72YrCanc	9.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	472139.6	3679398	9.84E-07	1.72YrCanc	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1107	ALL	471811	3679237	9.83E-07	1.72YrCanc	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	471226.5	3679315	9.82E-07	1.72YrCanc	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	471963.3	3679287	9.78E-07	1.72YrCanc	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	471824.8	3679237	9.72E-07	1.72YrCanc	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	471907.9	3679262	9.70E-07	1.72YrCanc	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	471161.4	3679348	9.70E-07	1.72YrCanc	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	472250	3679478	9.68E-07	1.72YrCanc	9.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	472064.3	3680123	9.67E-07	1.72YrCanc	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	471514.3	3679223	9.65E-07	1.72YrCanc	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	472114.3	3679373	9.65E-07	1.72YrCanc	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	472215.6	3679446	9.58E-07	1.72YrCanc	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	471686.3	3679211	9.56E-07	1.72YrCanc	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	471700.2	3679211	9.54E-07	1.72YrCanc	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	471852.5	3679237	9.50E-07	1.72YrCanc	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	471201.3	3679315	9.50E-07	1.72YrCanc	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	471714	3679211	9.50E-07	1.72YrCanc	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	472399.5	3679646	9.49E-07	1.72YrCanc	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	471727.9	3679211	9.45E-07	1.72YrCanc	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	471935.6	3679262	9.40E-07	1.72YrCanc	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	471741.7	3679211	9.39E-07	1.72YrCanc	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	471866.4	3679237	9.39E-07	1.72YrCanc	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	471138.7	3679350	9.38E-07	1.72YrCanc	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	472132.2	3679374	9.36E-07	1.72YrCanc	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	472440.5	3679745	9.34E-07	1.72YrCanc	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	471755.6	3679211	9.33E-07	1.72YrCanc	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	471964.3	3680173	9.30E-07	1.72YrCanc	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	472422.8	3679678	9.30E-07	1.72YrCanc	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	472164.3	3680073	9.29E-07	1.72YrCanc	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	471769.4	3679211	9.28E-07	1.72YrCanc	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	472114.3	3680123	9.27E-07	1.72YrCanc	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	471880.2	3679237	9.26E-07	1.72YrCanc	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	471949.5	3679262	9.24E-07	1.72YrCanc	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	471783.3	3679211	9.21E-07	1.72YrCanc	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	471797.1	3679211	9.14E-07	1.72YrCanc	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	471894.1	3679237	9.12E-07	1.72YrCanc	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	472367.8	3679884	9.08E-07	1.72YrCanc	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	471963.3	3679262	9.08E-07	1.72YrCanc	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	471811	3679211	9.06E-07	1.72YrCanc	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	471264.3	3679273	9.03E-07	1.72YrCanc	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	471305	3679258	9.03E-07	1.72YrCanc	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	471914.3	3680223	9.00E-07	1.72YrCanc	9.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	471907.9	3679237	8.98E-07	1.72YrCanc	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	471824.8	3679211	8.97E-07	1.72YrCanc	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	472014.3	3680173	8.90E-07	1.72YrCanc	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	472384.6	3679879	8.81E-07	1.72YrCanc	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	471852.5	3679211	8.78E-07	1.72YrCanc	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	472164.3	3679373	8.76E-07	1.72YrCanc	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	471092	3679349	8.76E-07	1.72YrCanc	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	471714	3679186	8.75E-07	1.72YrCanc	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	471935.6	3679237	8.72E-07	1.72YrCanc	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	471727.9	3679186	8.71E-07	1.72YrCanc	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	472403.2	3679590	8.70E-07	1.72YrCanc	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	471866.4	3679211	8.69E-07	1.72YrCanc	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	471741.7	3679186	8.67E-07	1.72YrCanc	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	472474.9	3679746	8.63E-07	1.72YrCanc	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	471263.2	3679256	8.63E-07	1.72YrCanc	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	471755.6	3679186	8.63E-07	1.72YrCanc	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1115	ALL	471949.5	3679237	8.59E-07	1.72YrCanc	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	471214.3	3679273	8.58E-07	1.72YrCanc	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	471880.2	3679211	8.58E-07	1.72YrCanc	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	471072.7	3679350	8.58E-07	1.72YrCanc	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	471769.4	3679186	8.58E-07	1.72YrCanc	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	472064.3	3680173	8.57E-07	1.72YrCanc	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	471783.3	3679186	8.52E-07	1.72YrCanc	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	471894.1	3679211	8.46E-07	1.72YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	472114.3	3679323	8.46E-07	1.72YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	472403.2	3679877	8.46E-07	1.72YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	471797.1	3679186	8.45E-07	1.72YrCanc	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	471963.3	3679237	8.45E-07	1.72YrCanc	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	472164.3	3680123	8.40E-07	1.72YrCanc	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	471811	3679186	8.38E-07	1.72YrCanc	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	471289.8	3679237	8.36E-07	1.72YrCanc	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	471907.9	3679211	8.34E-07	1.72YrCanc	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	471132.3	3679309	8.30E-07	1.72YrCanc	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	471824.8	3679186	8.30E-07	1.72YrCanc	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	471048.7	3679347	8.26E-07	1.72YrCanc	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	471538	3679168	8.21E-07	1.72YrCanc	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	472441.4	3679601	8.15E-07	1.72YrCanc	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	471686.3	3679161	8.15E-07	1.72YrCanc	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	471852.5	3679186	8.15E-07	1.72YrCanc	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	471935.6	3679211	8.13E-07	1.72YrCanc	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	472424.6	3679872	8.09E-07	1.72YrCanc	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	471866.4	3679186	8.06E-07	1.72YrCanc	8.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	471030.1	3679346	8.04E-07	1.72YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	471741.7	3679161	8.03E-07	1.72YrCanc	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	471949.5	3679211	8.01E-07	1.72YrCanc	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	471755.6	3679161	7.99E-07	1.72YrCanc	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	472114.3	3680173	7.98E-07	1.72YrCanc	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	471880.2	3679186	7.97E-07	1.72YrCanc	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	471584.4	3679153	7.96E-07	1.72YrCanc	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	471769.4	3679161	7.94E-07	1.72YrCanc	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	471783.3	3679161	7.90E-07	1.72YrCanc	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	471963.3	3679211	7.89E-07	1.72YrCanc	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	471894.1	3679186	7.87E-07	1.72YrCanc	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	471161.8	3679258	7.84E-07	1.72YrCanc	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	471010.9	3679346	7.84E-07	1.72YrCanc	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	471797.1	3679161	7.84E-07	1.72YrCanc	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	472473.1	3679619	7.81E-07	1.72YrCanc	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	471130.4	3679283	7.78E-07	1.72YrCanc	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	471811	3679161	7.78E-07	1.72YrCanc	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	472528	3679827	7.77E-07	1.72YrCanc	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	471907.9	3679186	7.77E-07	1.72YrCanc	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	471824.8	3679161	7.72E-07	1.72YrCanc	7.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	472451.6	3679872	7.71E-07	1.72YrCanc	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	470941.9	3679769	7.69E-07	1.72YrCanc	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	470930.1	3679752	7.63E-07	1.72YrCanc	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	471964.3	3680223	7.60E-07	1.72YrCanc	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	470982.7	3679348	7.59E-07	1.72YrCanc	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	471935.6	3679186	7.59E-07	1.72YrCanc	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	471852.5	3679161	7.57E-07	1.72YrCanc	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	471686.3	3679136	7.56E-07	1.72YrCanc	7.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	471700.2	3679136	7.54E-07	1.72YrCanc	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	471538.7	3679139	7.54E-07	1.72YrCanc	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	470909.3	3679721	7.53E-07	1.72YrCanc	7.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034	ALL	471714	3679136	7.52E-07	1.72YrCanc	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	472542.9	3679771	7.51E-07	1.72YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	471866.4	3679161	7.50E-07	1.72YrCanc	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	471949.5	3679186	7.49E-07	1.72YrCanc	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	472114.3	3679273	7.47E-07	1.72YrCanc	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	471229.4	3679213	7.46E-07	1.72YrCanc	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	471880.2	3679161	7.43E-07	1.72YrCanc	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	471755.6	3679136	7.42E-07	1.72YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	472164.3	3680173	7.41E-07	1.72YrCanc	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	472064.3	3680223	7.40E-07	1.72YrCanc	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	470966.2	3679346	7.40E-07	1.72YrCanc	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	471963.3	3679186	7.39E-07	1.72YrCanc	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	471769.4	3679136	7.38E-07	1.72YrCanc	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	471131.4	3679259	7.35E-07	1.72YrCanc	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	471894.1	3679161	7.35E-07	1.72YrCanc	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	471783.3	3679136	7.34E-07	1.72YrCanc	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	471797.1	3679136	7.29E-07	1.72YrCanc	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	470921.2	3679779	7.29E-07	1.72YrCanc	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	471907.9	3679161	7.26E-07	1.72YrCanc	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	470888.5	3679715	7.25E-07	1.72YrCanc	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	471251.3	3679196	7.24E-07	1.72YrCanc	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	471811	3679136	7.24E-07	1.72YrCanc	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	471824.8	3679136	7.19E-07	1.72YrCanc	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	470940.7	3679348	7.19E-07	1.72YrCanc	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	471169.9	3679215	7.14E-07	1.72YrCanc	7.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	471838.7	3679136	7.13E-07	1.72YrCanc	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	472571.7	3679822	7.11E-07	1.72YrCanc	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	472542	3679665	7.11E-07	1.72YrCanc	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	471935.6	3679161	7.10E-07	1.72YrCanc	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	472014.3	3680223	7.10E-07	1.72YrCanc	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	471852.5	3679136	7.07E-07	1.72YrCanc	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	471063.5	3679270	7.07E-07	1.72YrCanc	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	470923.6	3679351	7.06E-07	1.72YrCanc	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	471686.3	3679111	7.05E-07	1.72YrCanc	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	471700.2	3679111	7.03E-07	1.72YrCanc	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	471949.5	3679161	7.02E-07	1.72YrCanc	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	471714	3679111	7.01E-07	1.72YrCanc	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	471727.9	3679111	6.99E-07	1.72YrCanc	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	472114.3	3680223	6.99E-07	1.72YrCanc	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	471741.7	3679111	6.96E-07	1.72YrCanc	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	470887	3679758	6.95E-07	1.72YrCanc	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	471963.3	3679161	6.93E-07	1.72YrCanc	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	471133.3	3679231	6.92E-07	1.72YrCanc	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	471093.1	3679243	6.84E-07	1.72YrCanc	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	471033.3	3679269	6.82E-07	1.72YrCanc	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	471797.1	3679111	6.81E-07	1.72YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	471811	3679111	6.76E-07	1.72YrCanc	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	472574.5	3679677	6.74E-07	1.72YrCanc	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	471921.8	3679136	6.73E-07	1.72YrCanc	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	471824.8	3679111	6.72E-07	1.72YrCanc	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	470888.5	3679798	6.69E-07	1.72YrCanc	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	471008.5	3679271	6.68E-07	1.72YrCanc	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	471838.7	3679111	6.67E-07	1.72YrCanc	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	471935.6	3679136	6.66E-07	1.72YrCanc	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	471852.5	3679111	6.62E-07	1.72YrCanc	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	471686.3	3679086	6.59E-07	1.72YrCanc	6.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	471949.5	3679136	6.59E-07	1.72YrCanc	6.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1000	ALL	471700.2	3679086	6.58E-07	1.72YrCanc	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	472164.3	3680223	6.57E-07	1.72YrCanc	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	471714	3679086	6.56E-07	1.72YrCanc	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	471727.9	3679086	6.54E-07	1.72YrCanc	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	471741.7	3679086	6.51E-07	1.72YrCanc	6.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	471963.3	3679136	6.51E-07	1.72YrCanc	6.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	471755.6	3679086	6.48E-07	1.72YrCanc	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	470984.5	3679268	6.47E-07	1.72YrCanc	6.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	471769.4	3679086	6.44E-07	1.72YrCanc	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	471131.4	3679200	6.44E-07	1.72YrCanc	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	471168.5	3679173	6.44E-07	1.72YrCanc	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	471907.9	3679111	6.39E-07	1.72YrCanc	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	471057.3	3679222	6.34E-07	1.72YrCanc	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	471921.8	3679111	6.33E-07	1.72YrCanc	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	470956.6	3679268	6.29E-07	1.72YrCanc	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	471824.8	3679086	6.29E-07	1.72YrCanc	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	471935.6	3679111	6.26E-07	1.72YrCanc	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	471838.7	3679086	6.25E-07	1.72YrCanc	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	471132.3	3679182	6.20E-07	1.72YrCanc	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	471852.5	3679086	6.20E-07	1.72YrCanc	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	471949.5	3679111	6.19E-07	1.72YrCanc	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	471686.3	3679061	6.18E-07	1.72YrCanc	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	471700.2	3679061	6.17E-07	1.72YrCanc	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	471714	3679061	6.15E-07	1.72YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	471866.4	3679086	6.15E-07	1.72YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	471088.6	3679195	6.15E-07	1.72YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	471727.9	3679061	6.13E-07	1.72YrCanc	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	471963.3	3679111	6.12E-07	1.72YrCanc	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	470983.1	3679240	6.11E-07	1.72YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	471741.7	3679061	6.11E-07	1.72YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	471880.2	3679086	6.11E-07	1.72YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	471755.6	3679061	6.09E-07	1.72YrCanc	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	471894.1	3679086	6.06E-07	1.72YrCanc	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	471769.4	3679061	6.05E-07	1.72YrCanc	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	470955.9	3679245	6.03E-07	1.72YrCanc	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	471783.3	3679061	6.01E-07	1.72YrCanc	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	471907.9	3679086	6.00E-07	1.72YrCanc	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	471161.8	3679143	5.99E-07	1.72YrCanc	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	471797.1	3679061	5.98E-07	1.72YrCanc	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	471811	3679061	5.95E-07	1.72YrCanc	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	471921.8	3679086	5.94E-07	1.72YrCanc	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	471132.3	3679157	5.89E-07	1.72YrCanc	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	471935.6	3679086	5.88E-07	1.72YrCanc	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	471088.6	3679171	5.84E-07	1.72YrCanc	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	471852.5	3679061	5.82E-07	1.72YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	471949.5	3679086	5.82E-07	1.72YrCanc	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	471686.3	3679036	5.81E-07	1.72YrCanc	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	471700.2	3679036	5.80E-07	1.72YrCanc	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	471866.4	3679061	5.78E-07	1.72YrCanc	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	471714	3679036	5.78E-07	1.72YrCanc	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	471727.9	3679036	5.76E-07	1.72YrCanc	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	471963.3	3679086	5.75E-07	1.72YrCanc	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	471741.7	3679036	5.74E-07	1.72YrCanc	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	471880.2	3679061	5.74E-07	1.72YrCanc	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	471755.6	3679036	5.71E-07	1.72YrCanc	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	471545.7	3679031	5.70E-07	1.72YrCanc	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	471584.4	3679028	5.70E-07	1.72YrCanc	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

993	ALL	471894.1	3679061	5.69E-07	1.72YrCanc	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	471769.4	3679036	5.69E-07	1.72YrCanc	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	471783.3	3679036	5.66E-07	1.72YrCanc	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	471907.9	3679061	5.64E-07	1.72YrCanc	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	471797.1	3679036	5.63E-07	1.72YrCanc	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	470985.8	3679194	5.60E-07	1.72YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	471811	3679036	5.59E-07	1.72YrCanc	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	471921.8	3679061	5.59E-07	1.72YrCanc	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	471824.8	3679036	5.56E-07	1.72YrCanc	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	471092.8	3679145	5.55E-07	1.72YrCanc	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	471935.6	3679061	5.53E-07	1.72YrCanc	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	471838.7	3679036	5.52E-07	1.72YrCanc	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	470959	3679196	5.49E-07	1.72YrCanc	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	471623.5	3679011	5.49E-07	1.72YrCanc	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	471172.8	3679101	5.49E-07	1.72YrCanc	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	471949.5	3679061	5.48E-07	1.72YrCanc	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	471852.5	3679036	5.48E-07	1.72YrCanc	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	471006.8	3679172	5.48E-07	1.72YrCanc	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	471686.3	3679011	5.47E-07	1.72YrCanc	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	471700.2	3679011	5.46E-07	1.72YrCanc	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	471714	3679011	5.44E-07	1.72YrCanc	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	471866.4	3679036	5.44E-07	1.72YrCanc	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	471963.3	3679061	5.42E-07	1.72YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	471727.9	3679011	5.42E-07	1.72YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	471577.3	3679007	5.42E-07	1.72YrCanc	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	471741.7	3679011	5.40E-07	1.72YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	471478.1	3679015	5.40E-07	1.72YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	471880.2	3679036	5.40E-07	1.72YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	471409.5	3679024	5.38E-07	1.72YrCanc	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	471755.6	3679011	5.38E-07	1.72YrCanc	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	471769.4	3679011	5.36E-07	1.72YrCanc	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	471894.1	3679036	5.35E-07	1.72YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	471783.3	3679011	5.33E-07	1.72YrCanc	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	471907.9	3679036	5.31E-07	1.72YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	471797.1	3679011	5.30E-07	1.72YrCanc	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	471135.2	3679105	5.29E-07	1.72YrCanc	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	471544.1	3678998	5.28E-07	1.72YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	471811	3679011	5.28E-07	1.72YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	471185.6	3679077	5.27E-07	1.72YrCanc	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	471707.6	3678996	5.26E-07	1.72YrCanc	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	471340.9	3679026	5.25E-07	1.72YrCanc	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	471824.8	3679011	5.24E-07	1.72YrCanc	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	471652.4	3678991	5.23E-07	1.72YrCanc	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	471011.3	3679145	5.22E-07	1.72YrCanc	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	471935.6	3679036	5.22E-07	1.72YrCanc	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	471838.7	3679011	5.21E-07	1.72YrCanc	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	471949.5	3679036	5.18E-07	1.72YrCanc	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	471852.5	3679011	5.17E-07	1.72YrCanc	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	471362.4	3679013	5.16E-07	1.72YrCanc	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	470989.6	3679147	5.15E-07	1.72YrCanc	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	471622.2	3678984	5.15E-07	1.72YrCanc	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	471406.8	3679003	5.14E-07	1.72YrCanc	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	471481.5	3678991	5.13E-07	1.72YrCanc	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	471866.4	3679011	5.13E-07	1.72YrCanc	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	471963.3	3679036	5.13E-07	1.72YrCanc	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	471313.9	3679019	5.11E-07	1.72YrCanc	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	471694.2	3678982	5.10E-07	1.72YrCanc	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1349	ALL	471299.1	3679021	5.09E-07	1.72YrCanc	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	471094.5	3679100	5.09E-07	1.72YrCanc	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	471735.2	3678984	5.08E-07	1.72YrCanc	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	471278.3	3679027	5.08E-07	1.72YrCanc	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	470915.2	3679174	5.08E-07	1.72YrCanc	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	471322.7	3679014	5.07E-07	1.72YrCanc	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	471541.7	3678979	5.06E-07	1.72YrCanc	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	471809.3	3678991	5.04E-07	1.72YrCanc	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	471573.4	3678968	4.96E-07	1.72YrCanc	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	470842.4	3679196	4.96E-07	1.72YrCanc	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	471861.8	3678995	4.96E-07	1.72YrCanc	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	470881.3	3679172	4.94E-07	1.72YrCanc	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	471684.1	3678965	4.92E-07	1.72YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	472774.6	3679766	4.91E-07	1.72YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	471798.5	3678977	4.91E-07	1.72YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	471488.9	3678970	4.91E-07	1.72YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	471727.8	3678967	4.90E-07	1.72YrCanc	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	471094.8	3679076	4.87E-07	1.72YrCanc	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	471668.6	3678959	4.86E-07	1.72YrCanc	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	471536.2	3678960	4.84E-07	1.72YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	470813.3	3679197	4.84E-07	1.72YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	471373.8	3678978	4.80E-07	1.72YrCanc	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	471789.1	3678965	4.80E-07	1.72YrCanc	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	470911.2	3679144	4.80E-07	1.72YrCanc	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	471152.8	3679046	4.79E-07	1.72YrCanc	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	470841.6	3679173	4.78E-07	1.72YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	471015.8	3679096	4.78E-07	1.72YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	471839.6	3678971	4.76E-07	1.72YrCanc	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	471716.4	3678951	4.75E-07	1.72YrCanc	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	471579.7	3678947	4.74E-07	1.72YrCanc	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	471777.6	3678957	4.73E-07	1.72YrCanc	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	471626.2	3678943	4.71E-07	1.72YrCanc	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	470979.3	3679103	4.71E-07	1.72YrCanc	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	471061.5	3679070	4.71E-07	1.72YrCanc	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	471133.7	3679045	4.70E-07	1.72YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	471398.7	3678962	4.70E-07	1.72YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	470884.5	3679141	4.69E-07	1.72YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	471643	3678941	4.69E-07	1.72YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	471320	3678975	4.67E-07	1.72YrCanc	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	471092.1	3679055	4.67E-07	1.72YrCanc	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	471543.3	3678940	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	470768.4	3679196	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	471906.9	3678975	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	471150.9	3679030	4.64E-07	1.72YrCanc	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	470951.1	3679107	4.63E-07	1.72YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	470810.1	3679169	4.63E-07	1.72YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	471700.2	3678938	4.63E-07	1.72YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	471268.2	3678976	4.57E-07	1.72YrCanc	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	471682.1	3678929	4.55E-07	1.72YrCanc	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	471433.7	3678940	4.54E-07	1.72YrCanc	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	471814	3678944	4.53E-07	1.72YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	471763.5	3678935	4.53E-07	1.72YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	470836.8	3679143	4.53E-07	1.72YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	470904.7	3679111	4.52E-07	1.72YrCanc	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	471890.7	3678958	4.51E-07	1.72YrCanc	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	471007.5	3679066	4.50E-07	1.72YrCanc	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	471259.4	3678970	4.49E-07	1.72YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1508	ALL	471659.2	3678921	4.49E-07	1.72YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	470746.2	3679183	4.48E-07	1.72YrCanc	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	471646.4	3678919	4.47E-07	1.72YrCanc	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	470768.8	3679166	4.45E-07	1.72YrCanc	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	471052.7	3679041	4.44E-07	1.72YrCanc	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	470872.4	3679114	4.44E-07	1.72YrCanc	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	471750	3678922	4.43E-07	1.72YrCanc	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	470806.9	3679142	4.43E-07	1.72YrCanc	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	471540.1	3678916	4.42E-07	1.72YrCanc	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	471879.9	3678946	4.42E-07	1.72YrCanc	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	471483.2	3678920	4.41E-07	1.72YrCanc	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	471497.5	3678917	4.40E-07	1.72YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	471574.2	3678911	4.40E-07	1.72YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	471078.6	3679026	4.40E-07	1.72YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	471801.9	3678926	4.39E-07	1.72YrCanc	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	470944.3	3679077	4.39E-07	1.72YrCanc	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	471278.3	3678949	4.36E-07	1.72YrCanc	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	471626.2	3678906	4.36E-07	1.72YrCanc	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	471305.9	3678941	4.34E-07	1.72YrCanc	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	470975.5	3679055	4.32E-07	1.72YrCanc	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	471185.2	3678976	4.32E-07	1.72YrCanc	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	471863.8	3678930	4.32E-07	1.72YrCanc	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	471293.7	3678941	4.31E-07	1.72YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	470831.5	3679115	4.31E-07	1.72YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	471737.9	3678904	4.28E-07	1.72YrCanc	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	470952.8	3679057	4.27E-07	1.72YrCanc	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	471787.7	3678910	4.27E-07	1.72YrCanc	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	470732.8	3679158	4.27E-07	1.72YrCanc	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	470766	3679139	4.26E-07	1.72YrCanc	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	471577.3	3678895	4.26E-07	1.72YrCanc	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	471721.8	3678899	4.25E-07	1.72YrCanc	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	471854.4	3678919	4.24E-07	1.72YrCanc	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	470872.8	3679085	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	471027.7	3679022	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	470804	3679114	4.22E-07	1.72YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	471062.9	3679009	4.22E-07	1.72YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	471456.8	3678898	4.19E-07	1.72YrCanc	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	471501.2	3678893	4.19E-07	1.72YrCanc	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	471204.6	3678955	4.19E-07	1.72YrCanc	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	471545.7	3678884	4.16E-07	1.72YrCanc	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	471838.9	3678905	4.15E-07	1.72YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	471490.5	3678889	4.15E-07	1.72YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	471698.2	3678884	4.14E-07	1.72YrCanc	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	471764.2	3678891	4.13E-07	1.72YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	470904.3	3679057	4.13E-07	1.72YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	471579.7	3678877	4.11E-07	1.72YrCanc	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	470731.6	3679132	4.10E-07	1.72YrCanc	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	471001.4	3679014	4.10E-07	1.72YrCanc	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	471043.4	3678996	4.08E-07	1.72YrCanc	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	471473	3678881	4.08E-07	1.72YrCanc	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	471434	3678886	4.07E-07	1.72YrCanc	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	471830.1	3678893	4.06E-07	1.72YrCanc	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	470872.4	3679058	4.05E-07	1.72YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	471753.4	3678876	4.03E-07	1.72YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	471213.2	3678929	4.02E-07	1.72YrCanc	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	471686.8	3678868	4.01E-07	1.72YrCanc	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	470969.8	3679013	4.01E-07	1.72YrCanc	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1513	ALL	471667.3	3678865	4.00E-07	1.72YrCanc	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	471543.3	3678862	3.98E-07	1.72YrCanc	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	471814.7	3678879	3.97E-07	1.72YrCanc	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	470732	3679110	3.97E-07	1.72YrCanc	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	471019.6	3678986	3.96E-07	1.72YrCanc	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	471576.5	3678857	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	471300.1	3678895	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	471451.1	3678867	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	471738.6	3678864	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	471621.5	3678856	3.94E-07	1.72YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	471645.7	3678856	3.94E-07	1.72YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	471160.9	3678938	3.94E-07	1.72YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	470947.6	3679011	3.93E-07	1.72YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	470759.9	3679089	3.93E-07	1.72YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	470830.3	3679057	3.93E-07	1.72YrCanc	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	471339	3678881	3.92E-07	1.72YrCanc	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	471140.9	3678938	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	471797.8	3678865	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	471719.8	3678854	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	471385.9	3678867	3.88E-07	1.72YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	471365.3	3678870	3.87E-07	1.72YrCanc	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	470804.8	3679058	3.87E-07	1.72YrCanc	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	471501.2	3678850	3.86E-07	1.72YrCanc	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	471265.2	3678895	3.86E-07	1.72YrCanc	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	470994.5	3678980	3.86E-07	1.72YrCanc	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	471120.9	3678938	3.85E-07	1.72YrCanc	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	471212.6	3678905	3.84E-07	1.72YrCanc	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	471427.3	3678856	3.84E-07	1.72YrCanc	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	470903.9	3679012	3.83E-07	1.72YrCanc	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	470727.6	3679087	3.82E-07	1.72YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	471698.9	3678843	3.82E-07	1.72YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	471574.9	3678839	3.82E-07	1.72YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	471100.9	3678938	3.81E-07	1.72YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	470970.6	3678981	3.81E-07	1.72YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	471791.1	3678852	3.80E-07	1.72YrCanc	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	471491.4	3678841	3.79E-07	1.72YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	471294.7	3678872	3.78E-07	1.72YrCanc	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	470878.4	3679013	3.78E-07	1.72YrCanc	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	471080.9	3678938	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	471541.7	3678835	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	470945.6	3678985	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	471685.4	3678835	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	471411.2	3678847	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	471140.9	3678918	3.76E-07	1.72YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	471667.3	3678831	3.75E-07	1.72YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	470761.2	3679057	3.75E-07	1.72YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	471060.9	3678938	3.74E-07	1.72YrCanc	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	470857	3679014	3.74E-07	1.72YrCanc	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	471626.9	3678827	3.73E-07	1.72YrCanc	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	471120.9	3678918	3.73E-07	1.72YrCanc	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	471644.4	3678827	3.72E-07	1.72YrCanc	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	471340.7	3678853	3.72E-07	1.72YrCanc	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	471772.2	3678837	3.72E-07	1.72YrCanc	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	471185.2	3678896	3.71E-07	1.72YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	471479.3	3678830	3.71E-07	1.72YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	471040.9	3678938	3.70E-07	1.72YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	471100.9	3678918	3.69E-07	1.72YrCanc	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1452	ALL	471393.2	3678837	3.68E-07	1.72YrCanc	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	471577.3	3678819	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	470903.9	3678984	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	470730	3679058	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	471209.8	3678880	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	471759.5	3678829	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	470830.7	3679012	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	471020.9	3678938	3.66E-07	1.72YrCanc	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	471080.9	3678918	3.65E-07	1.72YrCanc	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	471385.9	3678833	3.64E-07	1.72YrCanc	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	471140.9	3678898	3.64E-07	1.72YrCanc	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	471540.1	3678814	3.63E-07	1.72YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	471294.7	3678849	3.63E-07	1.72YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	471184.6	3678881	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	471000.9	3678938	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	471060.9	3678918	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	470806.5	3679014	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	471455.5	3678819	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	470880.1	3678982	3.61E-07	1.72YrCanc	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	471746	3678818	3.61E-07	1.72YrCanc	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	471120.9	3678898	3.60E-07	1.72YrCanc	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	471496.8	3678812	3.60E-07	1.72YrCanc	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	471040.9	3678918	3.59E-07	1.72YrCanc	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	471361.6	3678828	3.58E-07	1.72YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	470980.9	3678938	3.58E-07	1.72YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	471727.2	3678811	3.57E-07	1.72YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	471339.8	3678830	3.57E-07	1.72YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	471100.9	3678898	3.57E-07	1.72YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	470781	3679013	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	471578.1	3678800	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	471020.9	3678918	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	470855	3678979	3.54E-07	1.72YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	471185.2	3678867	3.54E-07	1.72YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	470960.9	3678938	3.54E-07	1.72YrCanc	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	471479.3	3678801	3.52E-07	1.72YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	471140.9	3678878	3.52E-07	1.72YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	471434.1	3678806	3.52E-07	1.72YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	471000.9	3678918	3.51E-07	1.72YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	471212.6	3678853	3.51E-07	1.72YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	471060.9	3678898	3.51E-07	1.72YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	471185.2	3678861	3.50E-07	1.72YrCanc	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	471713.7	3678798	3.50E-07	1.72YrCanc	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	470940.9	3678938	3.50E-07	1.72YrCanc	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	470830.3	3678980	3.49E-07	1.72YrCanc	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	471543.3	3678792	3.49E-07	1.72YrCanc	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	471120.9	3678878	3.49E-07	1.72YrCanc	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	471040.9	3678898	3.48E-07	1.72YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	470980.9	3678918	3.47E-07	1.72YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	471694.8	3678791	3.47E-07	1.72YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	471292.3	3678822	3.47E-07	1.72YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	471630.9	3678787	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	471579.7	3678786	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	470920.9	3678938	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	471100.9	3678878	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	471682.1	3678788	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	471411.2	3678797	3.44E-07	1.72YrCanc	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	470806.9	3678981	3.44E-07	1.72YrCanc	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

831	ALL	471020.9	3678898	3.44E-07	1.72YrCanc	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	470960.9	3678918	3.44E-07	1.72YrCanc	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	471458.9	3678789	3.43E-07	1.72YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	470730.4	3679011	3.43E-07	1.72YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	471659.9	3678782	3.43E-07	1.72YrCanc	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	470900.9	3678938	3.42E-07	1.72YrCanc	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	471186.3	3678844	3.41E-07	1.72YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	471000.9	3678898	3.41E-07	1.72YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	471140.9	3678858	3.40E-07	1.72YrCanc	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	470940.9	3678918	3.40E-07	1.72YrCanc	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	471060.9	3678878	3.40E-07	1.72YrCanc	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	471547.2	3678775	3.39E-07	1.72YrCanc	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	471214.3	3678830	3.38E-07	1.72YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	470779.8	3678980	3.38E-07	1.72YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	470880.9	3678938	3.38E-07	1.72YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	471120.9	3678858	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	471437.5	3678781	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	470980.9	3678898	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	471040.9	3678878	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	470920.9	3678918	3.36E-07	1.72YrCanc	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	471385	3678786	3.36E-07	1.72YrCanc	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	470754.3	3678984	3.35E-07	1.72YrCanc	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	471100.9	3678858	3.35E-07	1.72YrCanc	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	470860.9	3678938	3.35E-07	1.72YrCanc	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	471186.9	3678832	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	471364.1	3678786	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	470960.9	3678898	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	471020.9	3678878	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	471505.5	3678765	3.32E-07	1.72YrCanc	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	470732	3678987	3.31E-07	1.72YrCanc	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	471334.4	3678786	3.31E-07	1.72YrCanc	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	470840.9	3678938	3.31E-07	1.72YrCanc	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	471000.9	3678878	3.30E-07	1.72YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	470940.9	3678898	3.30E-07	1.72YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	471140.9	3678838	3.30E-07	1.72YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	471187.4	3678822	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	471491.9	3678761	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	470880.9	3678918	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	471060.9	3678858	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	471293.1	3678790	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	471120.9	3678838	3.27E-07	1.72YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	470980.9	3678878	3.27E-07	1.72YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	470820.9	3678938	3.27E-07	1.72YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	470920.9	3678898	3.27E-07	1.72YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	471412.7	3678765	3.26E-07	1.72YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	471040.9	3678858	3.26E-07	1.72YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	471481.2	3678756	3.26E-07	1.72YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	470860.9	3678918	3.25E-07	1.72YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	471100.9	3678838	3.24E-07	1.72YrCanc	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	470960.9	3678878	3.23E-07	1.72YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	471020.9	3678858	3.23E-07	1.72YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	471211.5	3678802	3.23E-07	1.72YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	470800.9	3678938	3.23E-07	1.72YrCanc	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	471184	3678810	3.22E-07	1.72YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	471291.5	3678777	3.21E-07	1.72YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	470840.9	3678918	3.21E-07	1.72YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	471471	3678748	3.21E-07	1.72YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1471	ALL	471396.2	3678757	3.21E-07	1.72YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	471000.9	3678858	3.20E-07	1.72YrCanc	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	470940.9	3678878	3.20E-07	1.72YrCanc	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	470880.9	3678898	3.20E-07	1.72YrCanc	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	471140.9	3678818	3.19E-07	1.72YrCanc	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	470780.9	3678938	3.19E-07	1.72YrCanc	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	471338.8	3678763	3.19E-07	1.72YrCanc	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	471060.9	3678838	3.19E-07	1.72YrCanc	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	470820.9	3678918	3.18E-07	1.72YrCanc	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	471543.3	3678736	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	471186.3	3678799	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	470980.9	3678858	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	471120.9	3678818	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	470920.9	3678878	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	471040.9	3678838	3.16E-07	1.72YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	470860.9	3678898	3.16E-07	1.72YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	471455.5	3678740	3.16E-07	1.72YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	470760.9	3678938	3.15E-07	1.72YrCanc	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	471100.9	3678818	3.14E-07	1.72YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	470960.9	3678858	3.14E-07	1.72YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	470800.9	3678918	3.14E-07	1.72YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	471020.9	3678838	3.14E-07	1.72YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	471372.8	3678745	3.13E-07	1.72YrCanc	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	470840.9	3678898	3.12E-07	1.72YrCanc	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	471080.9	3678818	3.12E-07	1.72YrCanc	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	470940.9	3678858	3.11E-07	1.72YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	470880.9	3678878	3.11E-07	1.72YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	471000.9	3678838	3.11E-07	1.72YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	470780.9	3678918	3.11E-07	1.72YrCanc	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	471213.2	3678777	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	471184	3678784	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	471140.9	3678798	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	470820.9	3678898	3.09E-07	1.72YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	471436	3678728	3.09E-07	1.72YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	471477.3	3678723	3.08E-07	1.72YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	470980.9	3678838	3.08E-07	1.72YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	470920.9	3678858	3.08E-07	1.72YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	470860.9	3678878	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	471120.9	3678798	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	471040.9	3678818	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	470760.9	3678918	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	470800.9	3678898	3.06E-07	1.72YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	470960.9	3678838	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	471292.3	3678744	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	471185.7	3678774	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	471100.9	3678798	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	471020.9	3678818	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	471348.5	3678732	3.04E-07	1.72YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	471419.5	3678721	3.04E-07	1.72YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	470840.9	3678878	3.04E-07	1.72YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	471080.9	3678798	3.03E-07	1.72YrCanc	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	470940.9	3678838	3.02E-07	1.72YrCanc	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	470780.9	3678898	3.02E-07	1.72YrCanc	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	471000.9	3678818	3.02E-07	1.72YrCanc	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	470880.9	3678858	3.02E-07	1.72YrCanc	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	471411.7	3678718	3.02E-07	1.72YrCanc	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	471213.2	3678757	3.01E-07	1.72YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1492	ALL	471459.8	3678710	3.01E-07	1.72YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	470820.9	3678878	3.01E-07	1.72YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	471140.9	3678778	3.00E-07	1.72YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	470980.9	3678818	3.00E-07	1.72YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	471185.7	3678762	3.00E-07	1.72YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	470860.9	3678858	2.99E-07	1.72YrCanc	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	470760.9	3678898	2.99E-07	1.72YrCanc	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	471120.9	3678778	2.98E-07	1.72YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	471040.9	3678798	2.98E-07	1.72YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	470800.9	3678878	2.97E-07	1.72YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	470960.9	3678818	2.97E-07	1.72YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	471397.6	3678709	2.97E-07	1.72YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	471100.9	3678778	2.96E-07	1.72YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	471020.9	3678798	2.96E-07	1.72YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	470840.9	3678858	2.96E-07	1.72YrCanc	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	471430.7	3678701	2.95E-07	1.72YrCanc	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	471185.7	3678750	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	470780.9	3678878	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	470880.9	3678838	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	471080.9	3678778	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	470940.9	3678818	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	471291.5	3678720	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	471000.9	3678798	2.93E-07	1.72YrCanc	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	470820.9	3678858	2.92E-07	1.72YrCanc	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	471140.9	3678758	2.92E-07	1.72YrCanc	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	471060.9	3678778	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	470980.9	3678798	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	470860.9	3678838	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	470760.9	3678878	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	471372.3	3678697	2.90E-07	1.72YrCanc	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	471120.9	3678758	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	470800.9	3678858	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	471215.5	3678729	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	470900.9	3678818	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	470960.9	3678798	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	471410.7	3678688	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	471184.6	3678737	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	470840.9	3678838	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	471100.9	3678758	2.87E-07	1.72YrCanc	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	471020.9	3678778	2.87E-07	1.72YrCanc	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	470780.9	3678858	2.86E-07	1.72YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	470880.9	3678818	2.86E-07	1.72YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	470940.9	3678798	2.86E-07	1.72YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	471481.5	3678675	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	471080.9	3678758	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	471000.9	3678778	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	470820.9	3678838	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	471291.5	3678696	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	470760.9	3678858	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	471060.9	3678758	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	471140.9	3678738	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	470860.9	3678818	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	470980.9	3678778	2.82E-07	1.72YrCanc	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	470800.9	3678838	2.82E-07	1.72YrCanc	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	471349.5	3678682	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	471120.9	3678738	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	471457	3678667	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1489	ALL	471390.3	3678674	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	470900.9	3678798	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	470960.9	3678778	2.80E-07	1.72YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	470840.9	3678818	2.80E-07	1.72YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	471216.6	3678706	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	471100.9	3678738	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	470780.9	3678838	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	471020.9	3678758	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	471185.7	3678713	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	470880.9	3678798	2.78E-07	1.72YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	470940.9	3678778	2.78E-07	1.72YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	470820.9	3678818	2.77E-07	1.72YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	471000.9	3678758	2.77E-07	1.72YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	471080.9	3678738	2.77E-07	1.72YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	470760.9	3678838	2.76E-07	1.72YrCanc	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	471440.4	3678656	2.76E-07	1.72YrCanc	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	470860.9	3678798	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	471060.9	3678738	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	471140.9	3678718	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	470980.9	3678758	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	471361.6	3678664	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	470800.9	3678818	2.74E-07	1.72YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	471186.9	3678699	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	471120.9	3678718	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	470900.9	3678778	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	470960.9	3678758	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	470840.9	3678798	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	470780.9	3678818	2.72E-07	1.72YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	471216	3678687	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	471020.9	3678738	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	471100.9	3678718	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	470880.9	3678778	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	470940.9	3678758	2.70E-07	1.72YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	470820.9	3678798	2.70E-07	1.72YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	471187.4	3678689	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	471000.9	3678738	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	471080.9	3678718	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	470760.9	3678818	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	471418.2	3678641	2.68E-07	1.72YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	470860.9	3678778	2.68E-07	1.72YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	470800.9	3678798	2.67E-07	1.72YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	471060.9	3678718	2.67E-07	1.72YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	470980.9	3678738	2.67E-07	1.72YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	471140.9	3678698	2.67E-07	1.72YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	470900.9	3678758	2.66E-07	1.72YrCanc	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	470840.9	3678778	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	471120.9	3678698	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	470960.9	3678738	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	470780.9	3678798	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	471408.7	3678632	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	471186.3	3678675	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	470880.9	3678758	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	471100.9	3678698	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	471020.9	3678718	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	470940.9	3678738	2.63E-07	1.72YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	470820.9	3678778	2.63E-07	1.72YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	470760.9	3678798	2.62E-07	1.72YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

669	ALL	471000.9	3678718	2.62E-07	1.72YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	471080.9	3678698	2.62E-07	1.72YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	470860.9	3678758	2.61E-07	1.72YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	470800.9	3678778	2.61E-07	1.72YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	471060.9	3678698	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	470980.9	3678718	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	471212.6	3678657	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	471140.9	3678678	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	471188.6	3678662	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	470900.9	3678738	2.59E-07	1.72YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	470840.9	3678758	2.59E-07	1.72YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	471380.2	3678621	2.59E-07	1.72YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	470780.9	3678778	2.58E-07	1.72YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	470960.9	3678718	2.58E-07	1.72YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	471120.9	3678678	2.58E-07	1.72YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	470880.9	3678738	2.57E-07	1.72YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	471020.9	3678698	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	471100.9	3678678	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	470820.9	3678758	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	470940.9	3678718	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	470760.9	3678778	2.55E-07	1.72YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	471000.9	3678698	2.55E-07	1.72YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	471080.9	3678678	2.55E-07	1.72YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	470860.9	3678738	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	470800.9	3678758	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	471060.9	3678678	2.53E-07	1.72YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	470980.9	3678698	2.53E-07	1.72YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	471140.9	3678658	2.53E-07	1.72YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	470900.9	3678718	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	470840.9	3678738	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	471210.9	3678635	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	471358	3678607	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	470780.9	3678758	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	470960.9	3678698	2.51E-07	1.72YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	471120.9	3678658	2.51E-07	1.72YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	470880.9	3678718	2.50E-07	1.72YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	470820.9	3678738	2.50E-07	1.72YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	471020.9	3678678	2.50E-07	1.72YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	471100.9	3678658	2.49E-07	1.72YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	470940.9	3678698	2.49E-07	1.72YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	470760.9	3678758	2.49E-07	1.72YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	471000.9	3678678	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	471080.9	3678658	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	470860.9	3678718	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	470800.9	3678738	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	471060.9	3678658	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	470980.9	3678678	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	471336.6	3678595	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	471140.9	3678638	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	470840.9	3678718	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	470780.9	3678738	2.45E-07	1.72YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	470900.9	3678698	2.45E-07	1.72YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	470960.9	3678678	2.45E-07	1.72YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	471120.9	3678638	2.44E-07	1.72YrCanc	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	470880.9	3678698	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	470820.9	3678718	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	471020.9	3678658	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

676	ALL	470760.9	3678738	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	471100.9	3678638	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	471213.8	3678609	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	471312.1	3678590	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	470940.9	3678678	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	471000.9	3678658	2.42E-07	1.72YrCanc	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	471080.9	3678638	2.41E-07	1.72YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	470860.9	3678698	2.41E-07	1.72YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	470800.9	3678718	2.41E-07	1.72YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	470980.9	3678658	2.40E-07	1.72YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	471060.9	3678638	2.40E-07	1.72YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	471140.9	3678618	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	470840.9	3678698	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	470780.9	3678718	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	470900.9	3678678	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	470960.9	3678658	2.38E-07	1.72YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	471120.9	3678618	2.38E-07	1.72YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	470880.9	3678678	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	471286.8	3678578	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	470820.9	3678698	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	470760.9	3678718	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	471020.9	3678638	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	470940.9	3678658	2.36E-07	1.72YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	471100.9	3678618	2.36E-07	1.72YrCanc	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	470860.9	3678678	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	470800.9	3678698	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	471000.9	3678638	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	471080.9	3678618	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	471263.8	3678574	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	470980.9	3678638	2.34E-07	1.72YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	471191	3678585	2.34E-07	1.72YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	470780.9	3678698	2.34E-07	1.72YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	470840.9	3678678	2.33E-07	1.72YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	470900.9	3678658	2.33E-07	1.72YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	471140.9	3678598	2.33E-07	1.72YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	470960.9	3678638	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	470880.9	3678658	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	471120.9	3678598	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	470820.9	3678678	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	470760.9	3678698	2.31E-07	1.72YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	471175.9	3678582	2.31E-07	1.72YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	471020.9	3678618	2.31E-07	1.72YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	470940.9	3678638	2.30E-07	1.72YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	471100.9	3678598	2.30E-07	1.72YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	470860.9	3678658	2.30E-07	1.72YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	470800.9	3678678	2.30E-07	1.72YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	471000.9	3678618	2.29E-07	1.72YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	471080.9	3678598	2.29E-07	1.72YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	470780.9	3678678	2.28E-07	1.72YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	470980.9	3678618	2.28E-07	1.72YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	470840.9	3678658	2.28E-07	1.72YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	471140.9	3678578	2.27E-07	1.72YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	470960.9	3678618	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	471040.9	3678598	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	470880.9	3678638	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	470820.9	3678658	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	470760.9	3678678	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

550	ALL	471120.9	3678578	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	471186.2	3678560	2.25E-07	1.72YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	471020.9	3678598	2.25E-07	1.72YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	470940.9	3678618	2.25E-07	1.72YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	471100.9	3678578	2.25E-07	1.72YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	470800.9	3678658	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	470860.9	3678638	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	471000.9	3678598	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	471080.9	3678578	2.23E-07	1.72YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	470920.9	3678618	2.23E-07	1.72YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	470780.9	3678658	2.22E-07	1.72YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	470980.9	3678598	2.22E-07	1.72YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	470840.9	3678638	2.22E-07	1.72YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	471140.9	3678558	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	470960.9	3678598	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	471040.9	3678578	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	470760.9	3678658	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	470820.9	3678638	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	470880.9	3678618	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	471120.9	3678558	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	470940.9	3678598	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	471020.9	3678578	2.19E-07	1.72YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	471100.9	3678558	2.19E-07	1.72YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	470800.9	3678638	2.19E-07	1.72YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	470860.9	3678618	2.19E-07	1.72YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	471000.9	3678578	2.18E-07	1.72YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	470920.9	3678598	2.18E-07	1.72YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	470780.9	3678638	2.17E-07	1.72YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	470980.9	3678578	2.17E-07	1.72YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	470840.9	3678618	2.17E-07	1.72YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	471060.9	3678558	2.17E-07	1.72YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	470960.9	3678578	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	470760.9	3678638	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	471040.9	3678558	2.15E-07	1.72YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	470820.9	3678618	2.15E-07	1.72YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	470880.9	3678598	2.15E-07	1.72YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	470940.9	3678578	2.14E-07	1.72YrCanc	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	471020.9	3678558	2.14E-07	1.72YrCanc	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	470800.9	3678618	2.14E-07	1.72YrCanc	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	470860.9	3678598	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	471000.9	3678558	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	470920.9	3678578	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	470780.9	3678618	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	470980.9	3678558	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	470840.9	3678598	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	470760.9	3678618	2.11E-07	1.72YrCanc	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	470960.9	3678558	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	470820.9	3678598	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	470880.9	3678578	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	470940.9	3678558	2.09E-07	1.72YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	470800.9	3678598	2.09E-07	1.72YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	470860.9	3678578	2.08E-07	1.72YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	470920.9	3678558	2.08E-07	1.72YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	470780.9	3678598	2.07E-07	1.72YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	470840.9	3678578	2.07E-07	1.72YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	470760.9	3678598	2.06E-07	1.72YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	470820.9	3678578	2.05E-07	1.72YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

522	ALL	470880.9	3678558	2.05E-07	1.72YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	470800.9	3678578	2.04E-07	1.72YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	470860.9	3678558	2.03E-07	1.72YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	470780.9	3678578	2.03E-07	1.72YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	470840.9	3678558	2.02E-07	1.72YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	470760.9	3678578	2.01E-07	1.72YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	470820.9	3678558	2.01E-07	1.72YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	470800.9	3678558	1.99E-07	1.72YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	470780.9	3678558	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	470760.9	3678558	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/8/2023 4:57:50 PM - Cancer Risk - Input File: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Oceanside_Pacifica\OCEANSIDE_PACIFICA_CONST_MIT\hra\OCEANSIDE_PACIFICA_CONST_MITHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_R	EGG_RISK
157	ALL		471814.3	3679823	9.06E-06	1.72YrCanc	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL		471785.1	3679689	8.84E-06	1.72YrCanc	8.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	ALL		471789.5	3679690	8.46E-06	1.72YrCanc	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		471814.3	3679723	7.94E-06	1.72YrCanc	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		471778.1	3679855	7.91E-06	1.72YrCanc	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL		471828.2	3679741	7.73E-06	1.72YrCanc	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		471815	3679708	7.22E-06	1.72YrCanc	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL		471746.9	3679862	7.04E-06	1.72YrCanc	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL		471591.2	3679793	6.71E-06	1.72YrCanc	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		471816.8	3679690	6.40E-06	1.72YrCanc	6.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL		471794	3679864	6.40E-06	1.72YrCanc	6.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL		471814.3	3679673	5.78E-06	1.72YrCanc	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		471864.3	3679773	5.72E-06	1.72YrCanc	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		471864.3	3679823	5.69E-06	1.72YrCanc	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		471783.2	3679647	5.63E-06	1.72YrCanc	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL		471863.5	3679757	5.60E-06	1.72YrCanc	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL		471852.6	3679840	5.55E-06	1.72YrCanc	5.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL		471861.9	3679740	5.38E-06	1.72YrCanc	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL		471784.6	3679641	5.16E-06	1.72YrCanc	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		471536.2	3679727	5.12E-06	1.72YrCanc	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL		471814.3	3679873	5.07E-06	1.72YrCanc	5.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		471528.3	3679706	5.04E-06	1.72YrCanc	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		471796.6	3679646	5.03E-06	1.72YrCanc	5.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL		471861.9	3679722	5.03E-06	1.72YrCanc	5.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		471667.9	3679854	4.96E-06	1.72YrCanc	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		471651.3	3679845	4.94E-06	1.72YrCanc	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		471541.6	3679747	4.82E-06	1.72YrCanc	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		471764.3	3679623	4.77E-06	1.72YrCanc	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL		471868.8	3679844	4.75E-06	1.72YrCanc	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		471519.5	3679683	4.75E-06	1.72YrCanc	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		471684.1	3679863	4.60E-06	1.72YrCanc	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL		471514.3	3679673	4.58E-06	1.72YrCanc	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		471631.2	3679841	4.57E-06	1.72YrCanc	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL		471863.1	3679702	4.53E-06	1.72YrCanc	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL		471718	3679877	4.52E-06	1.72YrCanc	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL		471834	3679876	4.49E-06	1.72YrCanc	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		471511.2	3679665	4.48E-06	1.72YrCanc	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		471704.1	3679872	4.44E-06	1.72YrCanc	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		471514.3	3679723	4.34E-06	1.72YrCanc	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		471612.1	3679833	4.26E-06	1.72YrCanc	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		471820.3	3679645	4.24E-06	1.72YrCanc	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL		471891	3679759	4.24E-06	1.72YrCanc	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL		471890.6	3679781	4.21E-06	1.72YrCanc	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		471582.7	3679816	4.18E-06	1.72YrCanc	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL		471863.1	3679685	4.14E-06	1.72YrCanc	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		471538.1	3679768	4.12E-06	1.72YrCanc	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

277	ALL	471891.8	3679740	4.10E-06	1.72YrCanc	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	471498	3679649	3.97E-06	1.72YrCanc	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	471852.6	3679881	3.89E-06	1.72YrCanc	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	471888.2	3679851	3.83E-06	1.72YrCanc	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	471772.5	3679607	3.78E-06	1.72YrCanc	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	471863.1	3679667	3.71E-06	1.72YrCanc	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	471891.8	3679705	3.66E-06	1.72YrCanc	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	471797	3679616	3.65E-06	1.72YrCanc	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	471738.6	3679591	3.63E-06	1.72YrCanc	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	471536.2	3679789	3.61E-06	1.72YrCanc	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	471490.6	3679630	3.61E-06	1.72YrCanc	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	471914.3	3679773	3.61E-06	1.72YrCanc	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	471814.3	3679623	3.55E-06	1.72YrCanc	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	471755.6	3679593	3.53E-06	1.72YrCanc	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	471664.3	3679573	3.51E-06	1.72YrCanc	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	471477.8	3679709	3.44E-06	1.72YrCanc	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	471719.8	3679582	3.44E-06	1.72YrCanc	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	471564.3	3679823	3.42E-06	1.72YrCanc	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	471914.3	3679723	3.39E-06	1.72YrCanc	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	471484.4	3679733	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	471705	3679577	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	471514.3	3679773	3.35E-06	1.72YrCanc	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	471893.8	3679686	3.33E-06	1.72YrCanc	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	471467.9	3679692	3.33E-06	1.72YrCanc	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	471815.4	3679616	3.32E-06	1.72YrCanc	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	471464.3	3679673	3.32E-06	1.72YrCanc	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	471766.5	3679894	3.29E-06	1.72YrCanc	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	471865.1	3679648	3.23E-06	1.72YrCanc	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	471479.9	3679615	3.22E-06	1.72YrCanc	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	471686.9	3679569	3.15E-06	1.72YrCanc	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	471714.3	3679573	3.13E-06	1.72YrCanc	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	471914.3	3679823	3.10E-06	1.72YrCanc	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	471686.9	3679567	3.08E-06	1.72YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	471535.7	3679811	3.08E-06	1.72YrCanc	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	471485	3679753	3.04E-06	1.72YrCanc	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	471872.1	3679897	3.01E-06	1.72YrCanc	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	471893.8	3679666	3.00E-06	1.72YrCanc	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	471464.3	3679623	2.99E-06	1.72YrCanc	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	471447.5	3679652	2.97E-06	1.72YrCanc	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	471464.3	3679723	2.94E-06	1.72YrCanc	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	471783.9	3679902	2.93E-06	1.72YrCanc	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	471591.7	3679546	2.90E-06	1.72YrCanc	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	471862.7	3679630	2.88E-06	1.72YrCanc	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	471914.3	3679873	2.85E-06	1.72YrCanc	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	471672.8	3679557	2.84E-06	1.72YrCanc	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	471914.3	3679673	2.79E-06	1.72YrCanc	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	471470.1	3679593	2.71E-06	1.72YrCanc	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	471895.4	3679648	2.70E-06	1.72YrCanc	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	471887.9	3679902	2.67E-06	1.72YrCanc	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

385	ALL	471485	3679777	2.64E-06	1.72YrCanc	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	471437	3679633	2.64E-06	1.72YrCanc	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	471641	3679543	2.56E-06	1.72YrCanc	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	471862.3	3679612	2.54E-06	1.72YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	471895	3679631	2.44E-06	1.72YrCanc	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	471414.3	3679623	2.39E-06	1.72YrCanc	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	471627.3	3679532	2.35E-06	1.72YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	471484.4	3679798	2.34E-06	1.72YrCanc	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	471464.3	3679773	2.31E-06	1.72YrCanc	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	471740.9	3679931	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	471464.3	3679573	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	471426.4	3679610	2.30E-06	1.72YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	471964.3	3679773	2.29E-06	1.72YrCanc	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	471964.3	3679723	2.26E-06	1.72YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	471797.9	3679562	2.26E-06	1.72YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	471458.8	3679574	2.26E-06	1.72YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	471815.3	3679569	2.26E-06	1.72YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	471814.3	3679923	2.24E-06	1.72YrCanc	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	471414.3	3679673	2.23E-06	1.72YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	471606.2	3679523	2.21E-06	1.72YrCanc	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	471614.3	3679523	2.21E-06	1.72YrCanc	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	471758.5	3679940	2.20E-06	1.72YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	471730.6	3679538	2.20E-06	1.72YrCanc	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	471895	3679612	2.18E-06	1.72YrCanc	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	471914.3	3679623	2.14E-06	1.72YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	471976.8	3679760	2.14E-06	1.72YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	471964.3	3679823	2.13E-06	1.72YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	471664.3	3679523	2.13E-06	1.72YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	471978.1	3679775	2.11E-06	1.72YrCanc	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	471980.8	3679738	2.09E-06	1.72YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	471837.6	3679926	2.08E-06	1.72YrCanc	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	471977.5	3679793	2.08E-06	1.72YrCanc	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	471772.3	3679945	2.07E-06	1.72YrCanc	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	471414.6	3679594	2.06E-06	1.72YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	471484.4	3679820	2.06E-06	1.72YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	471696.6	3679523	2.04E-06	1.72YrCanc	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	471964.3	3679673	2.01E-06	1.72YrCanc	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	471979.5	3679813	2.00E-06	1.72YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	471914.3	3679923	2.00E-06	1.72YrCanc	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	471449.5	3679556	1.99E-06	1.72YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	471857.1	3679933	1.98E-06	1.72YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	471414.3	3679723	1.97E-06	1.72YrCanc	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	471978.1	3679830	1.95E-06	1.72YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	471964.3	3679873	1.94E-06	1.72YrCanc	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	471591.5	3679506	1.94E-06	1.72YrCanc	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	471863.6	3679568	1.89E-06	1.72YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	471940	3679914	1.89E-06	1.72YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	471977.5	3679852	1.88E-06	1.72YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	471414.3	3679573	1.87E-06	1.72YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1297	ALL	471700.2	3679512	1.86E-06	1.72YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	471795.6	3679954	1.84E-06	1.72YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	471714	3679512	1.83E-06	1.72YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	471927.5	3679926	1.83E-06	1.72YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	471464.3	3679823	1.82E-06	1.72YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	471727.9	3679512	1.81E-06	1.72YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	471741.7	3679512	1.80E-06	1.72YrCanc	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	471755.6	3679512	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	471682.9	3679945	1.79E-06	1.72YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	471483.1	3679842	1.78E-06	1.72YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	472014.3	3679723	1.77E-06	1.72YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	472014.3	3679773	1.76E-06	1.72YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	471982.1	3679868	1.75E-06	1.72YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	471611.5	3679916	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	471414.3	3679773	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	471662.6	3679497	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	471441.7	3679535	1.74E-06	1.72YrCanc	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	471364.3	3679573	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	471808	3679959	1.73E-06	1.72YrCanc	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	471769.4	3679512	1.72E-06	1.72YrCanc	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	471364.3	3679673	1.71E-06	1.72YrCanc	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	471661	3679940	1.69E-06	1.72YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	471364.3	3679623	1.69E-06	1.72YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	471591.1	3679911	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	471625.3	3679922	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	471646.7	3679933	1.68E-06	1.72YrCanc	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	471863.6	3679548	1.67E-06	1.72YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	471898.4	3679569	1.67E-06	1.72YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	472014.3	3679823	1.67E-06	1.72YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	471825.1	3679967	1.67E-06	1.72YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	471783.3	3679512	1.65E-06	1.72YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	471643.6	3679489	1.65E-06	1.72YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	471571.1	3679901	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	471981.4	3679889	1.64E-06	1.72YrCanc	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	471700.2	3679487	1.63E-06	1.72YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	471845.1	3679971	1.63E-06	1.72YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	471797.1	3679512	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	471719.5	3679963	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	471614.3	3679473	1.61E-06	1.72YrCanc	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	471755.6	3679487	1.59E-06	1.72YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	471364.3	3679723	1.59E-06	1.72YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	471864.3	3679973	1.59E-06	1.72YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	471664.3	3679473	1.58E-06	1.72YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	471741.7	3679487	1.58E-06	1.72YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	471714	3679487	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	471964.3	3679923	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	471811	3679512	1.57E-06	1.72YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	471736.2	3679968	1.56E-06	1.72YrCanc	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	472032.1	3679813	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

370	ALL	472026.9	3679831	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	471913.6	3679956	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	471752.8	3679974	1.55E-06	1.72YrCanc	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	471727.9	3679487	1.54E-06	1.72YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	471483.1	3679868	1.54E-06	1.72YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	471824.8	3679512	1.54E-06	1.72YrCanc	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	471769.4	3679487	1.53E-06	1.72YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	471861.7	3679980	1.52E-06	1.72YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	471895.3	3679548	1.51E-06	1.72YrCanc	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	472026.9	3679850	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	471700.2	3679462	1.49E-06	1.72YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	471414.3	3679823	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	471985.4	3679906	1.48E-06	1.72YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	472014.3	3679873	1.47E-06	1.72YrCanc	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	471314.3	3679623	1.46E-06	1.72YrCanc	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	471770.4	3679983	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	471714	3679462	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	472064.3	3679723	1.45E-06	1.72YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	472064.3	3679773	1.44E-06	1.72YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	471926.8	3679963	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	471783.3	3679487	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	471914.3	3679973	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	471790.4	3679988	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	471852.5	3679512	1.43E-06	1.72YrCanc	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	471741.7	3679462	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	471727.9	3679462	1.42E-06	1.72YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	471464.3	3679873	1.41E-06	1.72YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	471797.1	3679487	1.41E-06	1.72YrCanc	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	471755.6	3679462	1.40E-06	1.72YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	471364.3	3679773	1.40E-06	1.72YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	472028.8	3679870	1.40E-06	1.72YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	471314.3	3679673	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	471381	3679527	1.39E-06	1.72YrCanc	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	471811	3679487	1.38E-06	1.72YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	471824.8	3679487	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	471769.4	3679462	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	471808.9	3679994	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	471866.4	3679512	1.37E-06	1.72YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	472068.3	3679811	1.35E-06	1.72YrCanc	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	472064.3	3679823	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	472027.5	3679885	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	471988.7	3679924	1.34E-06	1.72YrCanc	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	471783.3	3679462	1.32E-06	1.72YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	471529.7	3679921	1.31E-06	1.72YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	471880.2	3679512	1.31E-06	1.72YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	471632.9	3679974	1.31E-06	1.72YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	471314.3	3679573	1.30E-06	1.72YrCanc	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	471828.4	3680004	1.29E-06	1.72YrCanc	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	471700.2	3679437	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

344	ALL	471947.2	3679974	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	471314.3	3679723	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	471852.5	3679487	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	472025.5	3679904	1.28E-06	1.72YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	471797.1	3679462	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	471714	3679437	1.27E-06	1.72YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	471894.1	3679512	1.26E-06	1.72YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	471583	3679956	1.26E-06	1.72YrCanc	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	471727.9	3679437	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	471597.3	3679962	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	472014.3	3679923	1.25E-06	1.72YrCanc	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	471414.3	3679873	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	471741.7	3679437	1.24E-06	1.72YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	471964.3	3679973	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	471811	3679462	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	471843.2	3680010	1.23E-06	1.72YrCanc	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	471907.9	3679512	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	471701	3680006	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	472074.3	3679847	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	471735.9	3680018	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	471755.6	3679437	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	471364.3	3679823	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	471824.8	3679462	1.22E-06	1.72YrCanc	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	471866.4	3679487	1.21E-06	1.72YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	471720.7	3680010	1.21E-06	1.72YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	471764.3	3680023	1.20E-06	1.72YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	471664.3	3679423	1.20E-06	1.72YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	471264.3	3679673	1.20E-06	1.72YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	471769.4	3679437	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	471614.3	3679423	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	472114.3	3679723	1.19E-06	1.72YrCanc	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	471814.3	3680023	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	472114.3	3679773	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	472064.3	3679873	1.18E-06	1.72YrCanc	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	471997.2	3679947	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	471783.3	3679437	1.17E-06	1.72YrCanc	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	471880.2	3679487	1.16E-06	1.72YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	471264.3	3679623	1.16E-06	1.72YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	471531.2	3679940	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	471664.3	3680023	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	471771.4	3680031	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	471564.3	3679423	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	471714.3	3680023	1.15E-06	1.72YrCanc	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	471852.5	3679462	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	471314.3	3679773	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	471797.1	3679437	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	472078.9	3679866	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	471864.3	3680023	1.14E-06	1.72YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	471314.3	3679523	1.13E-06	1.72YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1292	ALL	471894.1	3679487	1.13E-06	1.72YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	471935.6	3679512	1.13E-06	1.72YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	471464.3	3679923	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	471479.1	3679922	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	471355.9	3679488	1.12E-06	1.72YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	471700.2	3679412	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	471811	3679437	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	472114.3	3679823	1.11E-06	1.72YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	471866.4	3679462	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	471714	3679412	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	471973.5	3679993	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	471786.6	3680039	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	471907.9	3679487	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	471264.3	3679573	1.10E-06	1.72YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	471764.3	3680073	1.09E-06	1.72YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	471727.9	3679412	1.09E-06	1.72YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	471364.3	3679873	1.09E-06	1.72YrCanc	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	471824.8	3679437	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	471314.3	3679823	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	471949.5	3679512	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	471741.7	3679412	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	471264.3	3679723	1.08E-06	1.72YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	472080.9	3679882	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	471914.3	3680023	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	471805	3680047	1.07E-06	1.72YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	472014.4	3679961	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	471755.6	3679412	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	471880.2	3679462	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	471814.3	3680073	1.06E-06	1.72YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	471769.4	3679412	1.05E-06	1.72YrCanc	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	471963.3	3679512	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	471414.3	3679923	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	471826.7	3680054	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	472064.3	3679923	1.04E-06	1.72YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	471992	3679995	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	471894.1	3679462	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	471852.5	3679437	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	472014.3	3679973	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	471783.3	3679412	1.03E-06	1.72YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	471346.5	3679471	1.02E-06	1.72YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	471530.2	3679963	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	471935.6	3679487	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	472082.2	3679905	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	471964.3	3680023	1.01E-06	1.72YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	471797.1	3679412	1.00E-06	1.72YrCanc	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	471907.9	3679462	9.99E-07	1.72YrCanc	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	471478.4	3679942	9.99E-07	1.72YrCanc	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	471866.4	3679437	9.95E-07	1.72YrCanc	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	471264.3	3679773	9.93E-07	1.72YrCanc	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

81	ALL	471264.3	3679523	9.89E-07	1.72YrCanc	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	472114.3	3679873	9.86E-07	1.72YrCanc	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	471811	3679412	9.83E-07	1.72YrCanc	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	471714.3	3680073	9.79E-07	1.72YrCanc	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	471949.5	3679487	9.79E-07	1.72YrCanc	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	472032.1	3679970	9.74E-07	1.72YrCanc	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	471700.2	3679387	9.74E-07	1.72YrCanc	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	471714	3679387	9.67E-07	1.72YrCanc	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	471214.3	3679623	9.67E-07	1.72YrCanc	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	472164.3	3679723	9.62E-07	1.72YrCanc	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	471824.8	3679412	9.62E-07	1.72YrCanc	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	471880.2	3679437	9.60E-07	1.72YrCanc	9.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	471314.3	3679873	9.58E-07	1.72YrCanc	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	471727.9	3679387	9.58E-07	1.72YrCanc	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	471214.3	3679673	9.55E-07	1.72YrCanc	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	471963.3	3679487	9.48E-07	1.72YrCanc	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	471741.7	3679387	9.48E-07	1.72YrCanc	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	471664.3	3680073	9.46E-07	1.72YrCanc	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	472164.3	3679773	9.46E-07	1.72YrCanc	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	472164.3	3679673	9.39E-07	1.72YrCanc	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	471992.9	3679503	9.37E-07	1.72YrCanc	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	471214.3	3679573	9.37E-07	1.72YrCanc	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	471755.6	3679387	9.36E-07	1.72YrCanc	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	472088.1	3679929	9.34E-07	1.72YrCanc	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	471894.1	3679437	9.30E-07	1.72YrCanc	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	471329	3679456	9.27E-07	1.72YrCanc	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	471935.6	3679462	9.27E-07	1.72YrCanc	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	471769.4	3679387	9.23E-07	1.72YrCanc	9.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	471214.3	3679723	9.19E-07	1.72YrCanc	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	471664.3	3679373	9.18E-07	1.72YrCanc	9.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	471852.5	3679412	9.16E-07	1.72YrCanc	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	471614.3	3679373	9.13E-07	1.72YrCanc	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	471531.6	3679986	9.12E-07	1.72YrCanc	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	472173.3	3679739	9.09E-07	1.72YrCanc	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	471783.3	3679387	9.09E-07	1.72YrCanc	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	471907.9	3679437	9.07E-07	1.72YrCanc	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	471464.3	3679973	9.04E-07	1.72YrCanc	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	472164.3	3679823	8.96E-07	1.72YrCanc	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	471264.3	3679823	8.95E-07	1.72YrCanc	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	471764.3	3680123	8.95E-07	1.72YrCanc	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	471981.5	3679482	8.94E-07	1.72YrCanc	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	471797.1	3679387	8.93E-07	1.72YrCanc	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	471866.4	3679412	8.92E-07	1.72YrCanc	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	471949.5	3679462	8.91E-07	1.72YrCanc	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	472178.8	3679759	8.91E-07	1.72YrCanc	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	471477.1	3679966	8.90E-07	1.72YrCanc	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	471814.3	3680123	8.90E-07	1.72YrCanc	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	471364.3	3679923	8.89E-07	1.72YrCanc	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	472019.7	3679505	8.84E-07	1.72YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

227	ALL	471864.3	3680073	8.82E-07	1.72YrCanc	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	471614.3	3680023	8.80E-07	1.72YrCanc	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	472024.2	3680009	8.78E-07	1.72YrCanc	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	471811	3679387	8.75E-07	1.72YrCanc	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	471315	3679447	8.73E-07	1.72YrCanc	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	472180.7	3679780	8.72E-07	1.72YrCanc	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	471880.2	3679412	8.68E-07	1.72YrCanc	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	471864.3	3680123	8.68E-07	1.72YrCanc	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	472014.3	3680023	8.68E-07	1.72YrCanc	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	471214.3	3679523	8.67E-07	1.72YrCanc	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	471414.3	3679973	8.67E-07	1.72YrCanc	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	472064.3	3679973	8.66E-07	1.72YrCanc	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	472114.3	3679923	8.64E-07	1.72YrCanc	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	471963.3	3679462	8.63E-07	1.72YrCanc	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	471700.2	3679362	8.62E-07	1.72YrCanc	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	471264.3	3679473	8.61E-07	1.72YrCanc	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	471824.8	3679387	8.59E-07	1.72YrCanc	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	471526.9	3680007	8.57E-07	1.72YrCanc	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	471714	3679362	8.56E-07	1.72YrCanc	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	471214.3	3679773	8.52E-07	1.72YrCanc	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	472164.3	3679623	8.52E-07	1.72YrCanc	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	472182.6	3679798	8.50E-07	1.72YrCanc	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	471727.9	3679362	8.49E-07	1.72YrCanc	8.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	471935.6	3679437	8.48E-07	1.72YrCanc	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	471264.3	3679873	8.46E-07	1.72YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	471894.1	3679412	8.45E-07	1.72YrCanc	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	471764.3	3680173	8.42E-07	1.72YrCanc	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	471741.7	3679362	8.41E-07	1.72YrCanc	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	472200.3	3679673	8.40E-07	1.72YrCanc	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	471477.1	3679983	8.38E-07	1.72YrCanc	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	472181.6	3679816	8.34E-07	1.72YrCanc	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	471755.6	3679362	8.31E-07	1.72YrCanc	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	471980	3679459	8.29E-07	1.72YrCanc	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	471164.3	3679623	8.25E-07	1.72YrCanc	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	471852.5	3679387	8.22E-07	1.72YrCanc	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	471907.9	3679412	8.22E-07	1.72YrCanc	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	471769.4	3679362	8.21E-07	1.72YrCanc	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	471949.5	3679437	8.21E-07	1.72YrCanc	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	471814.3	3680173	8.18E-07	1.72YrCanc	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	471164.3	3679573	8.10E-07	1.72YrCanc	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	471783.3	3679362	8.10E-07	1.72YrCanc	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	471314.3	3679923	8.07E-07	1.72YrCanc	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	472014.3	3679473	8.05E-07	1.72YrCanc	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	471866.4	3679387	8.03E-07	1.72YrCanc	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	471914.3	3680073	8.03E-07	1.72YrCanc	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	471164.3	3679673	8.01E-07	1.72YrCanc	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	472214.2	3679734	8.00E-07	1.72YrCanc	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	471797.1	3679362	7.98E-07	1.72YrCanc	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	471289.8	3679435	7.98E-07	1.72YrCanc	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1260	ALL	471963.3	3679437	7.95E-07	1.72YrCanc	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	471214.3	3679823	7.91E-07	1.72YrCanc	7.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	472044	3680020	7.90E-07	1.72YrCanc	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	471564.3	3680023	7.88E-07	1.72YrCanc	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	471475.8	3680006	7.87E-07	1.72YrCanc	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	471811	3679362	7.85E-07	1.72YrCanc	7.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	471880.2	3679387	7.84E-07	1.72YrCanc	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	472223.5	3679673	7.83E-07	1.72YrCanc	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	471864.3	3680173	7.81E-07	1.72YrCanc	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	471531.2	3680033	7.81E-07	1.72YrCanc	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	471714.3	3680123	7.80E-07	1.72YrCanc	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	471264.3	3679923	7.76E-07	1.72YrCanc	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	471935.6	3679412	7.75E-07	1.72YrCanc	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	471214.3	3679473	7.73E-07	1.72YrCanc	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	471824.8	3679362	7.71E-07	1.72YrCanc	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	471700.2	3679337	7.68E-07	1.72YrCanc	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	471894.1	3679387	7.65E-07	1.72YrCanc	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	471714	3679337	7.64E-07	1.72YrCanc	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	471464.3	3680023	7.62E-07	1.72YrCanc	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	471472.5	3680028	7.59E-07	1.72YrCanc	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	471727.9	3679337	7.58E-07	1.72YrCanc	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	472192.8	3679854	7.55E-07	1.72YrCanc	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	472226.3	3679774	7.53E-07	1.72YrCanc	7.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	471949.5	3679412	7.52E-07	1.72YrCanc	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	471741.7	3679337	7.51E-07	1.72YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	471164.3	3679723	7.51E-07	1.72YrCanc	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	471907.9	3679387	7.47E-07	1.72YrCanc	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	472114.3	3679523	7.46E-07	1.72YrCanc	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	472114.3	3679973	7.46E-07	1.72YrCanc	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	472022.6	3679456	7.45E-07	1.72YrCanc	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	471279.9	3679421	7.45E-07	1.72YrCanc	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	471755.6	3679337	7.44E-07	1.72YrCanc	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	471852.5	3679362	7.42E-07	1.72YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	471991	3679434	7.42E-07	1.72YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	472229.1	3679791	7.40E-07	1.72YrCanc	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	472202.1	3679604	7.38E-07	1.72YrCanc	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	471769.4	3679337	7.36E-07	1.72YrCanc	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	471414.3	3680023	7.35E-07	1.72YrCanc	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	471664.3	3680123	7.34E-07	1.72YrCanc	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	471214.3	3679873	7.34E-07	1.72YrCanc	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	472223.5	3679631	7.33E-07	1.72YrCanc	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	472192.8	3679870	7.33E-07	1.72YrCanc	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	471364.3	3679973	7.32E-07	1.72YrCanc	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	471963.3	3679412	7.30E-07	1.72YrCanc	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	471664.3	3679323	7.29E-07	1.72YrCanc	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	471264.3	3679423	7.28E-07	1.72YrCanc	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	472258	3679719	7.28E-07	1.72YrCanc	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	471783.3	3679337	7.27E-07	1.72YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	471614.3	3679323	7.27E-07	1.72YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

215	ALL	472064.3	3680023	7.27E-07	1.72YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	471866.4	3679362	7.27E-07	1.72YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	472259.8	3679739	7.24E-07	1.72YrCanc	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	472258.9	3679756	7.20E-07	1.72YrCanc	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	471797.1	3679337	7.18E-07	1.72YrCanc	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	472064.3	3679473	7.17E-07	1.72YrCanc	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	471614.3	3680073	7.17E-07	1.72YrCanc	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	472234.7	3679809	7.13E-07	1.72YrCanc	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	471564.3	3679323	7.13E-07	1.72YrCanc	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	471880.2	3679362	7.12E-07	1.72YrCanc	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	472260.8	3679678	7.12E-07	1.72YrCanc	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	471935.6	3679387	7.08E-07	1.72YrCanc	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	472256.1	3679782	7.08E-07	1.72YrCanc	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	471811	3679337	7.08E-07	1.72YrCanc	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	471164.3	3679773	7.04E-07	1.72YrCanc	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	471764.3	3680223	7.01E-07	1.72YrCanc	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	472014.3	3680073	6.97E-07	1.72YrCanc	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	471824.8	3679337	6.97E-07	1.72YrCanc	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	471894.1	3679362	6.96E-07	1.72YrCanc	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	471514.3	3680073	6.95E-07	1.72YrCanc	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	471514.3	3679323	6.90E-07	1.72YrCanc	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	471700.2	3679312	6.90E-07	1.72YrCanc	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	472056.9	3679455	6.90E-07	1.72YrCanc	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	471949.5	3679387	6.89E-07	1.72YrCanc	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	471714	3679312	6.87E-07	1.72YrCanc	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	471255.4	3679409	6.86E-07	1.72YrCanc	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	471814.3	3680223	6.84E-07	1.72YrCanc	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	471964.3	3680073	6.83E-07	1.72YrCanc	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	471727.9	3679312	6.82E-07	1.72YrCanc	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	472236.6	3679831	6.82E-07	1.72YrCanc	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	471907.9	3679362	6.81E-07	1.72YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	471214.3	3679923	6.81E-07	1.72YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	472014.3	3679423	6.80E-07	1.72YrCanc	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	471164.3	3679823	6.77E-07	1.72YrCanc	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	471741.7	3679312	6.77E-07	1.72YrCanc	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	471564.3	3680073	6.76E-07	1.72YrCanc	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	471852.5	3679337	6.73E-07	1.72YrCanc	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	472201.2	3679893	6.71E-07	1.72YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	472264.5	3679802	6.71E-07	1.72YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	471963.3	3679387	6.71E-07	1.72YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	471755.6	3679312	6.70E-07	1.72YrCanc	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	471981.4	3679396	6.69E-07	1.72YrCanc	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	471214.3	3679423	6.69E-07	1.72YrCanc	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	471464.3	3680073	6.64E-07	1.72YrCanc	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	471769.4	3679312	6.64E-07	1.72YrCanc	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	472264.5	3679633	6.63E-07	1.72YrCanc	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	471866.4	3679337	6.61E-07	1.72YrCanc	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	471564.3	3680123	6.60E-07	1.72YrCanc	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	471783.3	3679312	6.57E-07	1.72YrCanc	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

86	ALL	472164.3	3679523	6.56E-07	1.72YrCanc	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	471364.3	3680023	6.52E-07	1.72YrCanc	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	471914.3	3680123	6.50E-07	1.72YrCanc	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	471797.1	3679312	6.50E-07	1.72YrCanc	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	471935.6	3679362	6.49E-07	1.72YrCanc	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	471864.3	3680223	6.49E-07	1.72YrCanc	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	471880.2	3679337	6.48E-07	1.72YrCanc	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	471232.6	3679404	6.47E-07	1.72YrCanc	6.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	472249.6	3679598	6.46E-07	1.72YrCanc	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	472267.3	3679822	6.44E-07	1.72YrCanc	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	472303.6	3679717	6.43E-07	1.72YrCanc	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	471811	3679312	6.42E-07	1.72YrCanc	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	471564.3	3680173	6.41E-07	1.72YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	472301.7	3679739	6.41E-07	1.72YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	472202.1	3679915	6.41E-07	1.72YrCanc	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	472114.3	3680023	6.40E-07	1.72YrCanc	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	472114.3	3679473	6.39E-07	1.72YrCanc	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	471894.1	3679337	6.36E-07	1.72YrCanc	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	471949.5	3679362	6.33E-07	1.72YrCanc	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	472002	3679392	6.33E-07	1.72YrCanc	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	471824.8	3679312	6.33E-07	1.72YrCanc	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	472245.9	3679864	6.31E-07	1.72YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	472164.3	3679973	6.31E-07	1.72YrCanc	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	472306.4	3679760	6.28E-07	1.72YrCanc	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	472064.3	3680073	6.25E-07	1.72YrCanc	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	471164.3	3679873	6.25E-07	1.72YrCanc	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	471700.2	3679287	6.24E-07	1.72YrCanc	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	471414.3	3680073	6.23E-07	1.72YrCanc	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	471907.9	3679337	6.23E-07	1.72YrCanc	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	472270.1	3679839	6.23E-07	1.72YrCanc	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	471980.9	3679374	6.23E-07	1.72YrCanc	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	471714	3679287	6.21E-07	1.72YrCanc	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	471314.3	3679973	6.21E-07	1.72YrCanc	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	471727.9	3679287	6.17E-07	1.72YrCanc	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	471963.3	3679362	6.17E-07	1.72YrCanc	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	472307.3	3679779	6.16E-07	1.72YrCanc	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	471852.5	3679312	6.14E-07	1.72YrCanc	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	472064.3	3679423	6.13E-07	1.72YrCanc	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	471741.7	3679287	6.13E-07	1.72YrCanc	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	472244.9	3679885	6.11E-07	1.72YrCanc	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	471210.4	3679399	6.10E-07	1.72YrCanc	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	471614.3	3680123	6.09E-07	1.72YrCanc	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	472312.9	3679670	6.08E-07	1.72YrCanc	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	471755.6	3679287	6.08E-07	1.72YrCanc	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	471866.4	3679312	6.04E-07	1.72YrCanc	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	472027.2	3679392	6.03E-07	1.72YrCanc	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	471769.4	3679287	6.03E-07	1.72YrCanc	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	471714.3	3680173	6.01E-07	1.72YrCanc	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	471783.3	3679287	5.97E-07	1.72YrCanc	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1186	ALL	471935.6	3679337	5.97E-07	1.72YrCanc	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	471664.3	3679273	5.96E-07	1.72YrCanc	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	471614.3	3679273	5.95E-07	1.72YrCanc	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	472272.9	3679861	5.94E-07	1.72YrCanc	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	471880.2	3679312	5.93E-07	1.72YrCanc	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	472313.8	3679796	5.93E-07	1.72YrCanc	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	471664.3	3680173	5.93E-07	1.72YrCanc	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	471272.1	3679356	5.92E-07	1.72YrCanc	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	471797.1	3679287	5.91E-07	1.72YrCanc	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	472247.7	3679905	5.90E-07	1.72YrCanc	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	471188.2	3679401	5.88E-07	1.72YrCanc	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	471964.3	3680123	5.88E-07	1.72YrCanc	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	471564.3	3679273	5.87E-07	1.72YrCanc	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	471164.3	3679923	5.87E-07	1.72YrCanc	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	471811	3679287	5.85E-07	1.72YrCanc	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	471949.5	3679337	5.83E-07	1.72YrCanc	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	471894.1	3679312	5.83E-07	1.72YrCanc	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	472303.6	3679624	5.79E-07	1.72YrCanc	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	471824.8	3679287	5.77E-07	1.72YrCanc	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	472284.1	3679593	5.76E-07	1.72YrCanc	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	471980.9	3679348	5.73E-07	1.72YrCanc	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	472164.3	3679473	5.72E-07	1.72YrCanc	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	471907.9	3679312	5.72E-07	1.72YrCanc	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	471514.3	3679273	5.72E-07	1.72YrCanc	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	472314.8	3679821	5.71E-07	1.72YrCanc	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	471963.3	3679337	5.70E-07	1.72YrCanc	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	471700.2	3679262	5.68E-07	1.72YrCanc	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	471714	3679262	5.65E-07	1.72YrCanc	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	471727.9	3679262	5.62E-07	1.72YrCanc	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	471852.5	3679287	5.61E-07	1.72YrCanc	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	472370.6	3679781	5.60E-07	1.72YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	471164.2	3679401	5.60E-07	1.72YrCanc	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	472274.7	3679896	5.59E-07	1.72YrCanc	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	472052.3	3679383	5.58E-07	1.72YrCanc	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	471741.7	3679262	5.58E-07	1.72YrCanc	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	472347.4	3679676	5.57E-07	1.72YrCanc	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	472369.7	3679741	5.54E-07	1.72YrCanc	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	471755.6	3679262	5.54E-07	1.72YrCanc	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	472114.3	3679423	5.53E-07	1.72YrCanc	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	471866.4	3679287	5.53E-07	1.72YrCanc	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	471251.5	3679342	5.53E-07	1.72YrCanc	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	472114.3	3680073	5.50E-07	1.72YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	471935.6	3679312	5.50E-07	1.72YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	471769.4	3679262	5.50E-07	1.72YrCanc	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	472318.5	3679842	5.48E-07	1.72YrCanc	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	471783.3	3679262	5.45E-07	1.72YrCanc	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	471880.2	3679287	5.44E-07	1.72YrCanc	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	471322.6	3679316	5.41E-07	1.72YrCanc	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	471797.1	3679262	5.40E-07	1.72YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

217	ALL	472164.3	3680023	5.39E-07	1.72YrCanc	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	471223.3	3679348	5.39E-07	1.72YrCanc	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	471949.5	3679312	5.39E-07	1.72YrCanc	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	471303.6	3679316	5.36E-07	1.72YrCanc	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	471894.1	3679287	5.35E-07	1.72YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	471914.3	3680173	5.35E-07	1.72YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	471811	3679262	5.35E-07	1.72YrCanc	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	472009.5	3679340	5.34E-07	1.72YrCanc	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	471140.3	3679399	5.30E-07	1.72YrCanc	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	472321.3	3679860	5.30E-07	1.72YrCanc	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	471614.3	3680173	5.29E-07	1.72YrCanc	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	471824.8	3679262	5.29E-07	1.72YrCanc	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	471963.3	3679312	5.28E-07	1.72YrCanc	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	471907.9	3679287	5.26E-07	1.72YrCanc	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	472139.6	3679421	5.24E-07	1.72YrCanc	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	472047.8	3679355	5.20E-07	1.72YrCanc	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	472014.3	3680123	5.19E-07	1.72YrCanc	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	471700.2	3679237	5.19E-07	1.72YrCanc	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	472356.7	3679636	5.19E-07	1.72YrCanc	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	472399.5	3679757	5.17E-07	1.72YrCanc	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	471714	3679237	5.17E-07	1.72YrCanc	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	471200.6	3679347	5.17E-07	1.72YrCanc	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	471664.3	3680223	5.16E-07	1.72YrCanc	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	471852.5	3679262	5.16E-07	1.72YrCanc	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	471727.9	3679237	5.14E-07	1.72YrCanc	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	471259.3	3679315	5.12E-07	1.72YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	471741.7	3679237	5.11E-07	1.72YrCanc	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	472333.4	3679590	5.11E-07	1.72YrCanc	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	472398.6	3679720	5.10E-07	1.72YrCanc	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	471866.4	3679262	5.09E-07	1.72YrCanc	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	471935.6	3679287	5.08E-07	1.72YrCanc	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	471755.6	3679237	5.07E-07	1.72YrCanc	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	471769.4	3679237	5.04E-07	1.72YrCanc	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	472192	3679446	5.03E-07	1.72YrCanc	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	471880.2	3679262	5.01E-07	1.72YrCanc	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	471240.3	3679316	5.01E-07	1.72YrCanc	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	471783.3	3679237	5.00E-07	1.72YrCanc	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	472164.3	3679423	5.00E-07	1.72YrCanc	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	471179.3	3679348	4.99E-07	1.72YrCanc	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	471949.5	3679287	4.99E-07	1.72YrCanc	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	471320.2	3679287	4.98E-07	1.72YrCanc	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	471614.3	3679223	4.98E-07	1.72YrCanc	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	472325	3679895	4.98E-07	1.72YrCanc	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	471797.1	3679237	4.96E-07	1.72YrCanc	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	472041.5	3679333	4.94E-07	1.72YrCanc	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	471894.1	3679262	4.93E-07	1.72YrCanc	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	471564.3	3679223	4.92E-07	1.72YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	472139.6	3679398	4.92E-07	1.72YrCanc	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	471811	3679237	4.91E-07	1.72YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

403	ALL	471226.5	3679315	4.91E-07	1.72YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	471963.3	3679287	4.89E-07	1.72YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	471824.8	3679237	4.86E-07	1.72YrCanc	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	471907.9	3679262	4.85E-07	1.72YrCanc	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	471161.4	3679348	4.85E-07	1.72YrCanc	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	472250	3679478	4.84E-07	1.72YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	472064.3	3680123	4.84E-07	1.72YrCanc	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	471514.3	3679223	4.82E-07	1.72YrCanc	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	472114.3	3679373	4.82E-07	1.72YrCanc	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	472215.6	3679446	4.79E-07	1.72YrCanc	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	471686.3	3679211	4.78E-07	1.72YrCanc	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	471700.2	3679211	4.77E-07	1.72YrCanc	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	471852.5	3679237	4.75E-07	1.72YrCanc	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	471201.3	3679315	4.75E-07	1.72YrCanc	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	471714	3679211	4.75E-07	1.72YrCanc	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	472399.5	3679646	4.74E-07	1.72YrCanc	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	471727.9	3679211	4.72E-07	1.72YrCanc	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	471935.6	3679262	4.70E-07	1.72YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	471741.7	3679211	4.70E-07	1.72YrCanc	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	471866.4	3679237	4.69E-07	1.72YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	471138.7	3679350	4.69E-07	1.72YrCanc	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	472132.2	3679374	4.68E-07	1.72YrCanc	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	472440.5	3679745	4.67E-07	1.72YrCanc	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	471755.6	3679211	4.67E-07	1.72YrCanc	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	471964.3	3680173	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	472422.8	3679678	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	472164.3	3680073	4.65E-07	1.72YrCanc	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	471769.4	3679211	4.64E-07	1.72YrCanc	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	472114.3	3680123	4.64E-07	1.72YrCanc	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	471880.2	3679237	4.63E-07	1.72YrCanc	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	471949.5	3679262	4.62E-07	1.72YrCanc	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	471783.3	3679211	4.61E-07	1.72YrCanc	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	471797.1	3679211	4.57E-07	1.72YrCanc	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	471894.1	3679237	4.56E-07	1.72YrCanc	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	472367.8	3679884	4.54E-07	1.72YrCanc	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	471963.3	3679262	4.54E-07	1.72YrCanc	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	471811	3679211	4.53E-07	1.72YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	471264.3	3679273	4.51E-07	1.72YrCanc	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	471305	3679258	4.51E-07	1.72YrCanc	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	471914.3	3680223	4.50E-07	1.72YrCanc	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	471907.9	3679237	4.49E-07	1.72YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	471824.8	3679211	4.48E-07	1.72YrCanc	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	472014.3	3680173	4.45E-07	1.72YrCanc	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	472384.6	3679879	4.40E-07	1.72YrCanc	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	471852.5	3679211	4.39E-07	1.72YrCanc	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	472164.3	3679373	4.38E-07	1.72YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	471092	3679349	4.38E-07	1.72YrCanc	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	471714	3679186	4.37E-07	1.72YrCanc	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	471935.6	3679237	4.36E-07	1.72YrCanc	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1064	ALL	471727.9	3679186	4.35E-07	1.72YrCanc	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	472403.2	3679590	4.35E-07	1.72YrCanc	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	471866.4	3679211	4.34E-07	1.72YrCanc	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	471741.7	3679186	4.33E-07	1.72YrCanc	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	472474.9	3679746	4.32E-07	1.72YrCanc	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	471263.2	3679256	4.31E-07	1.72YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	471755.6	3679186	4.31E-07	1.72YrCanc	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	471949.5	3679237	4.30E-07	1.72YrCanc	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	471214.3	3679273	4.29E-07	1.72YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	471880.2	3679211	4.29E-07	1.72YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	471072.7	3679350	4.29E-07	1.72YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	471769.4	3679186	4.29E-07	1.72YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	472064.3	3680173	4.29E-07	1.72YrCanc	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	471783.3	3679186	4.26E-07	1.72YrCanc	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	471894.1	3679211	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	472114.3	3679323	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	472403.2	3679877	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	471797.1	3679186	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	471963.3	3679237	4.23E-07	1.72YrCanc	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	472164.3	3680123	4.20E-07	1.72YrCanc	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	471811	3679186	4.19E-07	1.72YrCanc	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	471289.8	3679237	4.18E-07	1.72YrCanc	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	471907.9	3679211	4.17E-07	1.72YrCanc	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	471132.3	3679309	4.15E-07	1.72YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	471824.8	3679186	4.15E-07	1.72YrCanc	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	471048.7	3679347	4.13E-07	1.72YrCanc	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	471538	3679168	4.10E-07	1.72YrCanc	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	471686.3	3679161	4.07E-07	1.72YrCanc	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	472441.4	3679601	4.07E-07	1.72YrCanc	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	471852.5	3679186	4.07E-07	1.72YrCanc	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	471935.6	3679211	4.06E-07	1.72YrCanc	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	472424.6	3679872	4.05E-07	1.72YrCanc	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	471866.4	3679186	4.03E-07	1.72YrCanc	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	471030.1	3679346	4.02E-07	1.72YrCanc	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	471741.7	3679161	4.01E-07	1.72YrCanc	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	471949.5	3679211	4.01E-07	1.72YrCanc	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	471755.6	3679161	3.99E-07	1.72YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	472114.3	3680173	3.99E-07	1.72YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	471880.2	3679186	3.99E-07	1.72YrCanc	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	471584.4	3679153	3.98E-07	1.72YrCanc	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	471769.4	3679161	3.97E-07	1.72YrCanc	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	471783.3	3679161	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	471963.3	3679211	3.95E-07	1.72YrCanc	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	471894.1	3679186	3.94E-07	1.72YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	471161.8	3679258	3.92E-07	1.72YrCanc	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	471010.9	3679346	3.92E-07	1.72YrCanc	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	471797.1	3679161	3.92E-07	1.72YrCanc	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	472473.1	3679619	3.90E-07	1.72YrCanc	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	471130.4	3679283	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1053	ALL	471811	3679161	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	472528	3679827	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	471907.9	3679186	3.89E-07	1.72YrCanc	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	471824.8	3679161	3.86E-07	1.72YrCanc	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	472451.6	3679872	3.86E-07	1.72YrCanc	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	470941.9	3679769	3.84E-07	1.72YrCanc	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	470930.1	3679752	3.82E-07	1.72YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	471964.3	3680223	3.80E-07	1.72YrCanc	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	470982.7	3679348	3.79E-07	1.72YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	471935.6	3679186	3.79E-07	1.72YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	471852.5	3679161	3.79E-07	1.72YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	471686.3	3679136	3.78E-07	1.72YrCanc	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	471700.2	3679136	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	471538.7	3679139	3.77E-07	1.72YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	470909.3	3679721	3.76E-07	1.72YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	471714	3679136	3.76E-07	1.72YrCanc	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	472542.9	3679771	3.75E-07	1.72YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	471866.4	3679161	3.75E-07	1.72YrCanc	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	471949.5	3679186	3.74E-07	1.72YrCanc	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	472114.3	3679273	3.73E-07	1.72YrCanc	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	471229.4	3679213	3.73E-07	1.72YrCanc	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	471880.2	3679161	3.71E-07	1.72YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	471755.6	3679136	3.71E-07	1.72YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	472164.3	3680173	3.71E-07	1.72YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	472064.3	3680223	3.70E-07	1.72YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	470966.2	3679346	3.70E-07	1.72YrCanc	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	471963.3	3679186	3.69E-07	1.72YrCanc	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	471769.4	3679136	3.69E-07	1.72YrCanc	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	471131.4	3679259	3.68E-07	1.72YrCanc	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	471894.1	3679161	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	471783.3	3679136	3.67E-07	1.72YrCanc	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	471797.1	3679136	3.65E-07	1.72YrCanc	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	470921.2	3679779	3.65E-07	1.72YrCanc	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	471907.9	3679161	3.63E-07	1.72YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	470888.5	3679715	3.63E-07	1.72YrCanc	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	471251.3	3679196	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	471811	3679136	3.62E-07	1.72YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	471824.8	3679136	3.60E-07	1.72YrCanc	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	470940.7	3679348	3.59E-07	1.72YrCanc	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	471169.9	3679215	3.57E-07	1.72YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	471838.7	3679136	3.57E-07	1.72YrCanc	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	472571.7	3679822	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	472542	3679665	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	471935.6	3679161	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	472014.3	3680223	3.55E-07	1.72YrCanc	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	471852.5	3679136	3.53E-07	1.72YrCanc	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	471063.5	3679270	3.53E-07	1.72YrCanc	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	470923.6	3679351	3.53E-07	1.72YrCanc	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	471686.3	3679111	3.52E-07	1.72YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1018 ALL	471700.2	3679111	3.52E-07	1.72YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061 ALL	471949.5	3679161	3.51E-07	1.72YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019 ALL	471714	3679111	3.51E-07	1.72YrCanc	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020 ALL	471727.9	3679111	3.50E-07	1.72YrCanc	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268 ALL	472114.3	3680223	3.49E-07	1.72YrCanc	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021 ALL	471741.7	3679111	3.48E-07	1.72YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394 ALL	470887	3679758	3.47E-07	1.72YrCanc	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062 ALL	471963.3	3679161	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423 ALL	471133.3	3679231	3.46E-07	1.72YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437 ALL	471093.1	3679243	3.42E-07	1.72YrCanc	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439 ALL	471033.3	3679269	3.41E-07	1.72YrCanc	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022 ALL	471797.1	3679111	3.40E-07	1.72YrCanc	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023 ALL	471811	3679111	3.38E-07	1.72YrCanc	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937 ALL	472574.5	3679677	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043 ALL	471921.8	3679136	3.37E-07	1.72YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024 ALL	471824.8	3679111	3.36E-07	1.72YrCanc	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400 ALL	470888.5	3679798	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441 ALL	471008.5	3679271	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025 ALL	471838.7	3679111	3.34E-07	1.72YrCanc	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044 ALL	471935.6	3679136	3.33E-07	1.72YrCanc	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026 ALL	471852.5	3679111	3.31E-07	1.72YrCanc	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999 ALL	471686.3	3679086	3.30E-07	1.72YrCanc	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045 ALL	471949.5	3679136	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000 ALL	471700.2	3679086	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269 ALL	472164.3	3680223	3.29E-07	1.72YrCanc	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001 ALL	471714	3679086	3.28E-07	1.72YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002 ALL	471727.9	3679086	3.27E-07	1.72YrCanc	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003 ALL	471741.7	3679086	3.26E-07	1.72YrCanc	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046 ALL	471963.3	3679136	3.25E-07	1.72YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004 ALL	471755.6	3679086	3.24E-07	1.72YrCanc	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442 ALL	470984.5	3679268	3.24E-07	1.72YrCanc	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005 ALL	471769.4	3679086	3.22E-07	1.72YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424 ALL	471131.4	3679200	3.22E-07	1.72YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416 ALL	471168.5	3679173	3.22E-07	1.72YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027 ALL	471907.9	3679111	3.19E-07	1.72YrCanc	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438 ALL	471057.3	3679222	3.17E-07	1.72YrCanc	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028 ALL	471921.8	3679111	3.16E-07	1.72YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443 ALL	470956.6	3679268	3.15E-07	1.72YrCanc	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006 ALL	471824.8	3679086	3.14E-07	1.72YrCanc	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029 ALL	471935.6	3679111	3.13E-07	1.72YrCanc	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007 ALL	471838.7	3679086	3.12E-07	1.72YrCanc	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425 ALL	471132.3	3679182	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008 ALL	471852.5	3679086	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030 ALL	471949.5	3679111	3.10E-07	1.72YrCanc	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980 ALL	471686.3	3679061	3.09E-07	1.72YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981 ALL	471700.2	3679061	3.09E-07	1.72YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982 ALL	471714	3679061	3.08E-07	1.72YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009 ALL	471866.4	3679086	3.08E-07	1.72YrCanc	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436 ALL	471088.6	3679195	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

983	ALL	471727.9	3679061	3.07E-07	1.72YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	471963.3	3679111	3.06E-07	1.72YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	470983.1	3679240	3.06E-07	1.72YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	471741.7	3679061	3.06E-07	1.72YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	471880.2	3679086	3.05E-07	1.72YrCanc	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	471755.6	3679061	3.04E-07	1.72YrCanc	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	471894.1	3679086	3.03E-07	1.72YrCanc	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	471769.4	3679061	3.03E-07	1.72YrCanc	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	470955.9	3679245	3.01E-07	1.72YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	471783.3	3679061	3.01E-07	1.72YrCanc	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	471907.9	3679086	3.00E-07	1.72YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	471161.8	3679143	3.00E-07	1.72YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	471797.1	3679061	2.99E-07	1.72YrCanc	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	471811	3679061	2.97E-07	1.72YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	471921.8	3679086	2.97E-07	1.72YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	471132.3	3679157	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	471935.6	3679086	2.94E-07	1.72YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	471088.6	3679171	2.92E-07	1.72YrCanc	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	471852.5	3679061	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	471949.5	3679086	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	471686.3	3679036	2.91E-07	1.72YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	471700.2	3679036	2.90E-07	1.72YrCanc	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	471866.4	3679061	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	471714	3679036	2.89E-07	1.72YrCanc	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	471727.9	3679036	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	471963.3	3679086	2.88E-07	1.72YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	471741.7	3679036	2.87E-07	1.72YrCanc	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	471880.2	3679061	2.87E-07	1.72YrCanc	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	471755.6	3679036	2.86E-07	1.72YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	471545.7	3679031	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	471584.4	3679028	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	471894.1	3679061	2.85E-07	1.72YrCanc	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	471769.4	3679036	2.84E-07	1.72YrCanc	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	471783.3	3679036	2.83E-07	1.72YrCanc	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	471907.9	3679061	2.82E-07	1.72YrCanc	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	471797.1	3679036	2.81E-07	1.72YrCanc	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	470985.8	3679194	2.80E-07	1.72YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	471811	3679036	2.80E-07	1.72YrCanc	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	471921.8	3679061	2.79E-07	1.72YrCanc	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	471824.8	3679036	2.78E-07	1.72YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	471092.8	3679145	2.78E-07	1.72YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	471935.6	3679061	2.77E-07	1.72YrCanc	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	471838.7	3679036	2.76E-07	1.72YrCanc	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	470959	3679196	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	471623.5	3679011	2.75E-07	1.72YrCanc	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	471172.8	3679101	2.74E-07	1.72YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	471852.5	3679036	2.74E-07	1.72YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	471949.5	3679061	2.74E-07	1.72YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	471006.8	3679172	2.74E-07	1.72YrCanc	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

946	ALL	471686.3	3679011	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	471700.2	3679011	2.73E-07	1.72YrCanc	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	471714	3679011	2.72E-07	1.72YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	471866.4	3679036	2.72E-07	1.72YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	471963.3	3679061	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	471727.9	3679011	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	471577.3	3679007	2.71E-07	1.72YrCanc	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	471741.7	3679011	2.70E-07	1.72YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	471478.1	3679015	2.70E-07	1.72YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	471880.2	3679036	2.70E-07	1.72YrCanc	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	471409.5	3679024	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	471755.6	3679011	2.69E-07	1.72YrCanc	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	471769.4	3679011	2.68E-07	1.72YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	471894.1	3679036	2.68E-07	1.72YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	471783.3	3679011	2.67E-07	1.72YrCanc	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	471907.9	3679036	2.66E-07	1.72YrCanc	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	471797.1	3679011	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	471135.2	3679105	2.65E-07	1.72YrCanc	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	471544.1	3678998	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	471811	3679011	2.64E-07	1.72YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	471185.6	3679077	2.63E-07	1.72YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	471707.6	3678996	2.63E-07	1.72YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	471340.9	3679026	2.63E-07	1.72YrCanc	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	471824.8	3679011	2.62E-07	1.72YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	471652.4	3678991	2.62E-07	1.72YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	471011.3	3679145	2.61E-07	1.72YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	471935.6	3679036	2.61E-07	1.72YrCanc	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	471838.7	3679011	2.60E-07	1.72YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	471949.5	3679036	2.59E-07	1.72YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	471852.5	3679011	2.59E-07	1.72YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	471362.4	3679013	2.58E-07	1.72YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	470989.6	3679147	2.58E-07	1.72YrCanc	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	471622.2	3678984	2.57E-07	1.72YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	471406.8	3679003	2.57E-07	1.72YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	471481.5	3678991	2.57E-07	1.72YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	471866.4	3679011	2.57E-07	1.72YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	471963.3	3679036	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	471313.9	3679019	2.56E-07	1.72YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	471694.2	3678982	2.55E-07	1.72YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	471299.1	3679021	2.55E-07	1.72YrCanc	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	471094.5	3679100	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	471735.2	3678984	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	471278.3	3679027	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	470915.2	3679174	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	471322.7	3679014	2.54E-07	1.72YrCanc	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	471541.7	3678979	2.53E-07	1.72YrCanc	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	471809.3	3678991	2.52E-07	1.72YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	471573.4	3678968	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	470842.4	3679196	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1524 ALL	471861.8	3678995	2.48E-07	1.72YrCanc	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507 ALL	470881.3	3679172	2.47E-07	1.72YrCanc	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500 ALL	471684.1	3678965	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401 ALL	472774.6	3679766	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522 ALL	471798.5	3678977	2.46E-07	1.72YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341 ALL	471488.9	3678970	2.45E-07	1.72YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504 ALL	471727.8	3678967	2.45E-07	1.72YrCanc	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432 ALL	471094.8	3679076	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499 ALL	471668.6	3678959	2.43E-07	1.72YrCanc	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363 ALL	471536.2	3678960	2.42E-07	1.72YrCanc	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515 ALL	470813.3	3679197	2.42E-07	1.72YrCanc	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344 ALL	471373.8	3678978	2.40E-07	1.72YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521 ALL	471789.1	3678965	2.40E-07	1.72YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504 ALL	470911.2	3679144	2.40E-07	1.72YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430 ALL	471152.8	3679046	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513 ALL	470841.6	3679173	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453 ALL	471015.8	3679096	2.39E-07	1.72YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525 ALL	471839.6	3678971	2.38E-07	1.72YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505 ALL	471716.4	3678951	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365 ALL	471579.7	3678947	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520 ALL	471777.6	3678957	2.37E-07	1.72YrCanc	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497 ALL	471626.2	3678943	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451 ALL	470979.3	3679103	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458 ALL	471061.5	3679070	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428 ALL	471133.7	3679045	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343 ALL	471398.7	3678962	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505 ALL	470884.5	3679141	2.35E-07	1.72YrCanc	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498 ALL	471643	3678941	2.34E-07	1.72YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356 ALL	471320	3678975	2.34E-07	1.72YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431 ALL	471092.1	3679055	2.33E-07	1.72YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364 ALL	471543.3	3678940	2.33E-07	1.72YrCanc	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496 ALL	470768.4	3679196	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555 ALL	471906.9	3678975	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429 ALL	471150.9	3679030	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452 ALL	470951.1	3679107	2.32E-07	1.72YrCanc	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512 ALL	470810.1	3679169	2.31E-07	1.72YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506 ALL	471700.2	3678938	2.31E-07	1.72YrCanc	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352 ALL	471268.2	3678976	2.29E-07	1.72YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507 ALL	471682.1	3678929	2.28E-07	1.72YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342 ALL	471433.7	3678940	2.27E-07	1.72YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526 ALL	471814	3678944	2.27E-07	1.72YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519 ALL	471763.5	3678935	2.27E-07	1.72YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508 ALL	470836.8	3679143	2.27E-07	1.72YrCanc	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503 ALL	470904.7	3679111	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556 ALL	471890.7	3678958	2.26E-07	1.72YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454 ALL	471007.5	3679066	2.25E-07	1.72YrCanc	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351 ALL	471259.4	3678970	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508 ALL	471659.2	3678921	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493 ALL	470746.2	3679183	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1509 ALL	471646.4	3678919	2.24E-07	1.72YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495 ALL	470768.8	3679166	2.23E-07	1.72YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460 ALL	471052.7	3679041	2.22E-07	1.72YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502 ALL	470872.4	3679114	2.22E-07	1.72YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518 ALL	471750	3678922	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511 ALL	470806.9	3679142	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366 ALL	471540.1	3678916	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554 ALL	471879.9	3678946	2.21E-07	1.72YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382 ALL	471483.2	3678920	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383 ALL	471497.5	3678917	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367 ALL	471574.2	3678911	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459 ALL	471078.6	3679026	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527 ALL	471801.9	3678926	2.20E-07	1.72YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457 ALL	470944.3	3679077	2.19E-07	1.72YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353 ALL	471278.3	3678949	2.18E-07	1.72YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510 ALL	471626.2	3678906	2.18E-07	1.72YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355 ALL	471305.9	3678941	2.17E-07	1.72YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455 ALL	470975.5	3679055	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391 ALL	471185.2	3678976	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553 ALL	471863.8	3678930	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354 ALL	471293.7	3678941	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509 ALL	470831.5	3679115	2.16E-07	1.72YrCanc	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517 ALL	471737.9	3678904	2.14E-07	1.72YrCanc	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456 ALL	470952.8	3679057	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528 ALL	471787.7	3678910	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492 ALL	470732.8	3679158	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494 ALL	470766	3679139	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368 ALL	471577.3	3678895	2.13E-07	1.72YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516 ALL	471721.8	3678899	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552 ALL	471854.4	3678919	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501 ALL	470872.8	3679085	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463 ALL	471027.7	3679022	2.12E-07	1.72YrCanc	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510 ALL	470804	3679114	2.11E-07	1.72YrCanc	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461 ALL	471062.9	3679009	2.11E-07	1.72YrCanc	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384 ALL	471456.8	3678898	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457 ALL	471501.2	3678893	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392 ALL	471204.6	3678955	2.10E-07	1.72YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371 ALL	471545.7	3678884	2.08E-07	1.72YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551 ALL	471838.9	3678905	2.08E-07	1.72YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458 ALL	471490.5	3678889	2.08E-07	1.72YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515 ALL	471698.2	3678884	2.07E-07	1.72YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529 ALL	471764.2	3678891	2.07E-07	1.72YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500 ALL	470904.3	3679057	2.06E-07	1.72YrCanc	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369 ALL	471579.7	3678877	2.05E-07	1.72YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491 ALL	470731.6	3679132	2.05E-07	1.72YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465 ALL	471001.4	3679014	2.05E-07	1.72YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462 ALL	471043.4	3678996	2.04E-07	1.72YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456 ALL	471473	3678881	2.04E-07	1.72YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385 ALL	471434	3678886	2.04E-07	1.72YrCanc	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1550 ALL	471830.1	3678893	2.03E-07	1.72YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499 ALL	470872.4	3679058	2.03E-07	1.72YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530 ALL	471753.4	3678876	2.01E-07	1.72YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393 ALL	471213.2	3678929	2.01E-07	1.72YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514 ALL	471686.8	3678868	2.01E-07	1.72YrCanc	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468 ALL	470969.8	3679013	2.00E-07	1.72YrCanc	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513 ALL	471667.3	3678865	2.00E-07	1.72YrCanc	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370 ALL	471543.3	3678862	1.99E-07	1.72YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549 ALL	471814.7	3678879	1.99E-07	1.72YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490 ALL	470732	3679110	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464 ALL	471019.6	3678986	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372 ALL	471576.5	3678857	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389 ALL	471300.1	3678895	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455 ALL	471451.1	3678867	1.98E-07	1.72YrCanc	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531 ALL	471738.6	3678864	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511 ALL	471621.5	3678856	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512 ALL	471645.7	3678856	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876 ALL	471160.9	3678938	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469 ALL	470947.6	3679011	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488 ALL	470759.9	3679089	1.97E-07	1.72YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498 ALL	470830.3	3679057	1.96E-07	1.72YrCanc	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388 ALL	471339	3678881	1.96E-07	1.72YrCanc	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875 ALL	471140.9	3678938	1.95E-07	1.72YrCanc	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548 ALL	471797.8	3678865	1.94E-07	1.72YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532 ALL	471719.8	3678854	1.94E-07	1.72YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386 ALL	471385.9	3678867	1.94E-07	1.72YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387 ALL	471365.3	3678870	1.94E-07	1.72YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497 ALL	470804.8	3679058	1.93E-07	1.72YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459 ALL	471501.2	3678850	1.93E-07	1.72YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390 ALL	471265.2	3678895	1.93E-07	1.72YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466 ALL	470994.5	3678980	1.93E-07	1.72YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874 ALL	471120.9	3678938	1.93E-07	1.72YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394 ALL	471212.6	3678905	1.92E-07	1.72YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454 ALL	471427.3	3678856	1.92E-07	1.72YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472 ALL	470903.9	3679012	1.92E-07	1.72YrCanc	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489 ALL	470727.6	3679087	1.91E-07	1.72YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533 ALL	471698.9	3678843	1.91E-07	1.72YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374 ALL	471574.9	3678839	1.91E-07	1.72YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873 ALL	471100.9	3678938	1.91E-07	1.72YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467 ALL	470970.6	3678981	1.90E-07	1.72YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547 ALL	471791.1	3678852	1.90E-07	1.72YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460 ALL	471491.4	3678841	1.90E-07	1.72YrCanc	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447 ALL	471294.7	3678872	1.89E-07	1.72YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474 ALL	470878.4	3679013	1.89E-07	1.72YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872 ALL	471080.9	3678938	1.89E-07	1.72YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373 ALL	471541.7	3678835	1.89E-07	1.72YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470 ALL	470945.6	3678985	1.89E-07	1.72YrCanc	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534 ALL	471685.4	3678835	1.88E-07	1.72YrCanc	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453 ALL	471411.2	3678847	1.88E-07	1.72YrCanc	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

855	ALL	471140.9	3678918	1.88E-07	1.72YrCanc	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	471667.3	3678831	1.87E-07	1.72YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	470761.2	3679057	1.87E-07	1.72YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	471060.9	3678938	1.87E-07	1.72YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	470857	3679014	1.87E-07	1.72YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	471626.9	3678827	1.86E-07	1.72YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	471120.9	3678918	1.86E-07	1.72YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	471644.4	3678827	1.86E-07	1.72YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	471340.7	3678853	1.86E-07	1.72YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	471772.2	3678837	1.86E-07	1.72YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	471185.2	3678896	1.85E-07	1.72YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	471479.3	3678830	1.85E-07	1.72YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	471040.9	3678938	1.85E-07	1.72YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	471100.9	3678918	1.84E-07	1.72YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	471393.2	3678837	1.84E-07	1.72YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	471577.3	3678819	1.84E-07	1.72YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	470903.9	3678984	1.84E-07	1.72YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	470730	3679058	1.84E-07	1.72YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	471209.8	3678880	1.83E-07	1.72YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	471759.5	3678829	1.83E-07	1.72YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	470830.7	3679012	1.83E-07	1.72YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	471020.9	3678938	1.83E-07	1.72YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	471080.9	3678918	1.83E-07	1.72YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	471385.9	3678833	1.82E-07	1.72YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	471140.9	3678898	1.82E-07	1.72YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	471540.1	3678814	1.82E-07	1.72YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	471294.7	3678849	1.82E-07	1.72YrCanc	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	471184.6	3678881	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	471000.9	3678938	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	471060.9	3678918	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	470806.5	3679014	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	471455.5	3678819	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	470880.1	3678982	1.81E-07	1.72YrCanc	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	471746	3678818	1.80E-07	1.72YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	471120.9	3678898	1.80E-07	1.72YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	471496.8	3678812	1.80E-07	1.72YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	471040.9	3678918	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	471361.6	3678828	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	470980.9	3678938	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	471727.2	3678811	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	471339.8	3678830	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	471100.9	3678898	1.79E-07	1.72YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	470781	3679013	1.78E-07	1.72YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	471578.1	3678800	1.78E-07	1.72YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	471020.9	3678918	1.77E-07	1.72YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	470855	3678979	1.77E-07	1.72YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	471185.2	3678867	1.77E-07	1.72YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	470960.9	3678938	1.77E-07	1.72YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	471479.3	3678801	1.76E-07	1.72YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

818	ALL	471140.9	3678878	1.76E-07	1.72YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	471434.1	3678806	1.76E-07	1.72YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	471000.9	3678918	1.76E-07	1.72YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	471212.6	3678853	1.76E-07	1.72YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	471060.9	3678898	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	471185.2	3678861	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	471713.7	3678798	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	470940.9	3678938	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	470830.3	3678980	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	471543.3	3678792	1.75E-07	1.72YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	471120.9	3678878	1.74E-07	1.72YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	471040.9	3678898	1.74E-07	1.72YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	470980.9	3678918	1.74E-07	1.72YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	471694.8	3678791	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	471292.3	3678822	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	471630.9	3678787	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	471579.7	3678786	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	470920.9	3678938	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	471100.9	3678878	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	471682.1	3678788	1.73E-07	1.72YrCanc	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	471411.2	3678797	1.72E-07	1.72YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	470806.9	3678981	1.72E-07	1.72YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	471020.9	3678898	1.72E-07	1.72YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	470960.9	3678918	1.72E-07	1.72YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	471458.9	3678789	1.72E-07	1.72YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	470730.4	3679011	1.71E-07	1.72YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	471659.9	3678782	1.71E-07	1.72YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	470900.9	3678938	1.71E-07	1.72YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	471000.9	3678898	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	471186.3	3678844	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	471140.9	3678858	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	470940.9	3678918	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	471060.9	3678878	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	471547.2	3678775	1.70E-07	1.72YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	471214.3	3678830	1.69E-07	1.72YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	470779.8	3678980	1.69E-07	1.72YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	470880.9	3678938	1.69E-07	1.72YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	471120.9	3678858	1.69E-07	1.72YrCanc	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	471437.5	3678781	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	470980.9	3678898	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	471040.9	3678878	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	470920.9	3678918	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	471385	3678786	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	470754.3	3678984	1.68E-07	1.72YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	471100.9	3678858	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	470860.9	3678938	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	471186.9	3678832	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	471364.1	3678786	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	470960.9	3678898	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

813	ALL	471020.9	3678878	1.67E-07	1.72YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	471505.5	3678765	1.66E-07	1.72YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	470732	3678987	1.66E-07	1.72YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	471334.4	3678786	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	470840.9	3678938	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	471000.9	3678878	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	470940.9	3678898	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	471140.9	3678838	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	471187.4	3678822	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	471491.9	3678761	1.65E-07	1.72YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	470880.9	3678918	1.64E-07	1.72YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	471060.9	3678858	1.64E-07	1.72YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	471293.1	3678790	1.64E-07	1.72YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	471120.9	3678838	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	470980.9	3678878	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	470820.9	3678938	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	470920.9	3678898	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	471412.7	3678765	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	471040.9	3678858	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	471481.2	3678756	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	470860.9	3678918	1.63E-07	1.72YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	471100.9	3678838	1.62E-07	1.72YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	470960.9	3678878	1.62E-07	1.72YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	471020.9	3678858	1.62E-07	1.72YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	471211.5	3678802	1.62E-07	1.72YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	470800.9	3678938	1.61E-07	1.72YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	471184	3678810	1.61E-07	1.72YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	471291.5	3678777	1.61E-07	1.72YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	470840.9	3678918	1.61E-07	1.72YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	471471	3678748	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	471396.2	3678757	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	471000.9	3678858	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	470940.9	3678878	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	470880.9	3678898	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	471140.9	3678818	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	470780.9	3678938	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	471338.8	3678763	1.60E-07	1.72YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	471060.9	3678838	1.59E-07	1.72YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	470820.9	3678918	1.59E-07	1.72YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	471543.3	3678736	1.59E-07	1.72YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	471186.3	3678799	1.59E-07	1.72YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	470980.9	3678858	1.59E-07	1.72YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	471120.9	3678818	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	470920.9	3678878	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	471040.9	3678838	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	470860.9	3678898	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	471455.5	3678740	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	470760.9	3678938	1.58E-07	1.72YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	471100.9	3678818	1.57E-07	1.72YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

792	ALL	470960.9	3678858	1.57E-07	1.72YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	470800.9	3678918	1.57E-07	1.72YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	471020.9	3678838	1.57E-07	1.72YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	471372.8	3678745	1.56E-07	1.72YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	470840.9	3678898	1.56E-07	1.72YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	471080.9	3678818	1.56E-07	1.72YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	470940.9	3678858	1.56E-07	1.72YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	470880.9	3678878	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	471000.9	3678838	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	470780.9	3678918	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	471213.2	3678777	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	471184	3678784	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	471140.9	3678798	1.55E-07	1.72YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	470820.9	3678898	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	471436	3678728	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	471477.3	3678723	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	470980.9	3678838	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	470920.9	3678858	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	470860.9	3678878	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	471120.9	3678798	1.54E-07	1.72YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	471040.9	3678818	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	470760.9	3678918	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	470800.9	3678898	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	470960.9	3678838	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	471292.3	3678744	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	471185.7	3678774	1.53E-07	1.72YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	471100.9	3678798	1.52E-07	1.72YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	471020.9	3678818	1.52E-07	1.72YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	471348.5	3678732	1.52E-07	1.72YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	471419.5	3678721	1.52E-07	1.72YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	470840.9	3678878	1.52E-07	1.72YrCanc	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	471080.9	3678798	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	470940.9	3678838	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	470780.9	3678898	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	471000.9	3678818	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	470880.9	3678858	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	471411.7	3678718	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	471213.2	3678757	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	471459.8	3678710	1.51E-07	1.72YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	470820.9	3678878	1.50E-07	1.72YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	471140.9	3678778	1.50E-07	1.72YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	470980.9	3678818	1.50E-07	1.72YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	471185.7	3678762	1.50E-07	1.72YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	470860.9	3678858	1.49E-07	1.72YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	470760.9	3678898	1.49E-07	1.72YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	471120.9	3678778	1.49E-07	1.72YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	471040.9	3678798	1.49E-07	1.72YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	470800.9	3678878	1.49E-07	1.72YrCanc	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	470960.9	3678818	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1485 ALL	471397.6	3678709	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727 ALL	471100.9	3678778	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742 ALL	471020.9	3678798	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787 ALL	470840.9	3678858	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491 ALL	471430.7	3678701	1.48E-07	1.72YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413 ALL	471185.7	3678750	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802 ALL	470780.9	3678878	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772 ALL	470880.9	3678838	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726 ALL	471080.9	3678778	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756 ALL	470940.9	3678818	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441 ALL	471291.5	3678720	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741 ALL	471000.9	3678798	1.47E-07	1.72YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786 ALL	470820.9	3678858	1.46E-07	1.72YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711 ALL	471140.9	3678758	1.46E-07	1.72YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725 ALL	471060.9	3678778	1.46E-07	1.72YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740 ALL	470980.9	3678798	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771 ALL	470860.9	3678838	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801 ALL	470760.9	3678878	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486 ALL	471372.3	3678697	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710 ALL	471120.9	3678758	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785 ALL	470800.9	3678858	1.45E-07	1.72YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401 ALL	471215.5	3678729	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755 ALL	470900.9	3678818	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739 ALL	470960.9	3678798	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490 ALL	471410.7	3678688	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412 ALL	471184.6	3678737	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770 ALL	470840.9	3678838	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709 ALL	471100.9	3678758	1.44E-07	1.72YrCanc	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724 ALL	471020.9	3678778	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784 ALL	470780.9	3678858	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754 ALL	470880.9	3678818	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738 ALL	470940.9	3678798	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439 ALL	471481.5	3678675	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708 ALL	471080.9	3678758	1.43E-07	1.72YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723 ALL	471000.9	3678778	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769 ALL	470820.9	3678838	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440 ALL	471291.5	3678696	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707 ALL	471060.9	3678758	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783 ALL	470760.9	3678858	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693 ALL	471140.9	3678738	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753 ALL	470860.9	3678818	1.42E-07	1.72YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722 ALL	470980.9	3678778	1.41E-07	1.72YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768 ALL	470800.9	3678838	1.41E-07	1.72YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487 ALL	471349.5	3678682	1.41E-07	1.72YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692 ALL	471120.9	3678738	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438 ALL	471457	3678667	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489 ALL	471390.3	3678674	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737 ALL	470900.9	3678798	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721 ALL	470960.9	3678778	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

752	ALL	470840.9	3678818	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	471216.6	3678706	1.40E-07	1.72YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	471100.9	3678738	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	470780.9	3678838	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	471020.9	3678758	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	471185.7	3678713	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	470880.9	3678798	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	470940.9	3678778	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	470820.9	3678818	1.39E-07	1.72YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	471000.9	3678758	1.38E-07	1.72YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	471080.9	3678738	1.38E-07	1.72YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	470760.9	3678838	1.38E-07	1.72YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	471440.4	3678656	1.38E-07	1.72YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	470860.9	3678798	1.38E-07	1.72YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	471060.9	3678738	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	471140.9	3678718	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	470980.9	3678758	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	471361.6	3678664	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	470800.9	3678818	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	471186.9	3678699	1.37E-07	1.72YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	471120.9	3678718	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	470900.9	3678778	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	470960.9	3678758	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	470840.9	3678798	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	470780.9	3678818	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	471216	3678687	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	471020.9	3678738	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	471100.9	3678718	1.36E-07	1.72YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	470880.9	3678778	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	470940.9	3678758	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	470820.9	3678798	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	471187.4	3678689	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	471000.9	3678738	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	471080.9	3678718	1.35E-07	1.72YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	470760.9	3678818	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	471418.2	3678641	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	470860.9	3678778	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	470800.9	3678798	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	471060.9	3678718	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	471140.9	3678698	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	470980.9	3678738	1.34E-07	1.72YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	470900.9	3678758	1.33E-07	1.72YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	470840.9	3678778	1.33E-07	1.72YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	471120.9	3678698	1.33E-07	1.72YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	470960.9	3678738	1.33E-07	1.72YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	470780.9	3678798	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	471408.7	3678632	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	471186.3	3678675	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	470880.9	3678758	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

655	ALL	471100.9	3678698	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	471020.9	3678718	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	470940.9	3678738	1.32E-07	1.72YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	470820.9	3678778	1.31E-07	1.72YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	470760.9	3678798	1.31E-07	1.72YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	471080.9	3678698	1.31E-07	1.72YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	471000.9	3678718	1.31E-07	1.72YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	470860.9	3678758	1.31E-07	1.72YrCanc	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	470800.9	3678778	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	471060.9	3678698	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	470980.9	3678718	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	471212.6	3678657	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	471140.9	3678678	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	471188.6	3678662	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	470900.9	3678738	1.30E-07	1.72YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	470840.9	3678758	1.29E-07	1.72YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	471380.2	3678621	1.29E-07	1.72YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	470780.9	3678778	1.29E-07	1.72YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	470960.9	3678718	1.29E-07	1.72YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	471120.9	3678678	1.29E-07	1.72YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	470880.9	3678738	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	471020.9	3678698	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	471100.9	3678678	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	470820.9	3678758	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	470940.9	3678718	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	470760.9	3678778	1.28E-07	1.72YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	471000.9	3678698	1.27E-07	1.72YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	471080.9	3678678	1.27E-07	1.72YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	470860.9	3678738	1.27E-07	1.72YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	470800.9	3678758	1.27E-07	1.72YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	471060.9	3678678	1.27E-07	1.72YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	470980.9	3678698	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	471140.9	3678658	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	470900.9	3678718	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	470840.9	3678738	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	471210.9	3678635	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	471358	3678607	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	470780.9	3678758	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	470960.9	3678698	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	471120.9	3678658	1.26E-07	1.72YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	470880.9	3678718	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	470820.9	3678738	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	471020.9	3678678	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	471100.9	3678658	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	470940.9	3678698	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	470760.9	3678758	1.25E-07	1.72YrCanc	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	471000.9	3678678	1.24E-07	1.72YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	471080.9	3678658	1.24E-07	1.72YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	470860.9	3678718	1.24E-07	1.72YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

678	ALL	470800.9	3678738	1.24E-07	1.72YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	471060.9	3678658	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	470980.9	3678678	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	471336.6	3678595	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	471140.9	3678638	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	470840.9	3678718	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	470780.9	3678738	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	470900.9	3678698	1.23E-07	1.72YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	470960.9	3678678	1.22E-07	1.72YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	471120.9	3678638	1.22E-07	1.72YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	470880.9	3678698	1.22E-07	1.72YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	470820.9	3678718	1.22E-07	1.72YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	471020.9	3678658	1.22E-07	1.72YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	470760.9	3678738	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	471100.9	3678638	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	471213.8	3678609	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	470940.9	3678678	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	471312.1	3678590	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	471000.9	3678658	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	471080.9	3678638	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	470860.9	3678698	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	470800.9	3678718	1.21E-07	1.72YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	470980.9	3678658	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	471060.9	3678638	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	471140.9	3678618	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	470840.9	3678698	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	470780.9	3678718	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	470900.9	3678678	1.20E-07	1.72YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	470960.9	3678658	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	471120.9	3678618	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	470880.9	3678678	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	471286.8	3678578	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	470820.9	3678698	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	470760.9	3678718	1.19E-07	1.72YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	471020.9	3678638	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	470940.9	3678658	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	471100.9	3678618	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	470800.9	3678698	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	470860.9	3678678	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	471000.9	3678638	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	471080.9	3678618	1.18E-07	1.72YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	471263.8	3678574	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	470980.9	3678638	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	471191	3678585	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	470780.9	3678698	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	470840.9	3678678	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	470900.9	3678658	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	471140.9	3678598	1.17E-07	1.72YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	470960.9	3678638	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

610 ALL	470880.9	3678658	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568 ALL	471120.9	3678598	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625 ALL	470820.9	3678678	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640 ALL	470760.9	3678698	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427 ALL	471175.9	3678582	1.16E-07	1.72YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582 ALL	471020.9	3678618	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594 ALL	470940.9	3678638	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567 ALL	471100.9	3678598	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609 ALL	470860.9	3678658	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624 ALL	470800.9	3678678	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581 ALL	471000.9	3678618	1.15E-07	1.72YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566 ALL	471080.9	3678598	1.14E-07	1.72YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623 ALL	470780.9	3678678	1.14E-07	1.72YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580 ALL	470980.9	3678618	1.14E-07	1.72YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608 ALL	470840.9	3678658	1.14E-07	1.72YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551 ALL	471140.9	3678578	1.14E-07	1.72YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579 ALL	470960.9	3678618	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565 ALL	471040.9	3678598	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593 ALL	470880.9	3678638	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607 ALL	470820.9	3678658	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622 ALL	470760.9	3678678	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550 ALL	471120.9	3678578	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428 ALL	471186.2	3678560	1.13E-07	1.72YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564 ALL	471020.9	3678598	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578 ALL	470940.9	3678618	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549 ALL	471100.9	3678578	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606 ALL	470800.9	3678658	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592 ALL	470860.9	3678638	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563 ALL	471000.9	3678598	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548 ALL	471080.9	3678578	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577 ALL	470920.9	3678618	1.12E-07	1.72YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605 ALL	470780.9	3678658	1.11E-07	1.72YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562 ALL	470980.9	3678598	1.11E-07	1.72YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591 ALL	470840.9	3678638	1.11E-07	1.72YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533 ALL	471140.9	3678558	1.11E-07	1.72YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561 ALL	470960.9	3678598	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547 ALL	471040.9	3678578	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604 ALL	470760.9	3678658	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590 ALL	470820.9	3678638	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576 ALL	470880.9	3678618	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532 ALL	471120.9	3678558	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560 ALL	470940.9	3678598	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546 ALL	471020.9	3678578	1.10E-07	1.72YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531 ALL	471100.9	3678558	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589 ALL	470800.9	3678638	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575 ALL	470860.9	3678618	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545 ALL	471000.9	3678578	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559 ALL	470920.9	3678598	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588 ALL	470780.9	3678638	1.09E-07	1.72YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

544	ALL	470980.9	3678578	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	470840.9	3678618	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	471060.9	3678558	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	470960.9	3678578	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	470760.9	3678638	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	471040.9	3678558	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	470820.9	3678618	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	470880.9	3678598	1.08E-07	1.72YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	470940.9	3678578	1.07E-07	1.72YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	471020.9	3678558	1.07E-07	1.72YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	470800.9	3678618	1.07E-07	1.72YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	470860.9	3678598	1.07E-07	1.72YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	471000.9	3678558	1.06E-07	1.72YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	470920.9	3678578	1.06E-07	1.72YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	470780.9	3678618	1.06E-07	1.72YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	470980.9	3678558	1.06E-07	1.72YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	470840.9	3678598	1.06E-07	1.72YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	470760.9	3678618	1.05E-07	1.72YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	470960.9	3678558	1.05E-07	1.72YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	470820.9	3678598	1.05E-07	1.72YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	470880.9	3678578	1.05E-07	1.72YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	470940.9	3678558	1.04E-07	1.72YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	470800.9	3678598	1.04E-07	1.72YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	470860.9	3678578	1.04E-07	1.72YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	470920.9	3678558	1.04E-07	1.72YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	470780.9	3678598	1.04E-07	1.72YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	470840.9	3678578	1.03E-07	1.72YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	470760.9	3678598	1.03E-07	1.72YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	470820.9	3678578	1.03E-07	1.72YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	470880.9	3678558	1.02E-07	1.72YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	470800.9	3678578	1.02E-07	1.72YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	470860.9	3678558	1.02E-07	1.72YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	470780.9	3678578	1.01E-07	1.72YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	470840.9	3678558	1.01E-07	1.72YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	470760.9	3678578	1.01E-07	1.72YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	470820.9	3678558	1.00E-07	1.72YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	470800.9	3678558	9.97E-08	1.72YrCanc	9.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	470780.9	3678558	9.90E-08	1.72YrCanc	9.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	470760.9	3678558	9.84E-08	1.72YrCanc	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/23/2022
** File: C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica-OnsiteRec\Oceanside-Pacifica-OnsiteRec.AD
I
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\enuno\OneDrive - Dudek\Desktop\OP_Onsite\Oceanside-Pacifica
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3287306 SD_County_Population_2021
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Oceanside-Pacifica-OnsiteRec.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Offroad Equipment and Trucks
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 44
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** 471759.692, 3679744.839, 30.93, 5.00, 4.65
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** 471792.998, 3679782.767, 31.56, 5.00, 4.65
** 471753.659, 3679770.731, 30.92, 5.00, 4.65
** 471755.714, 3679765.153, 30.92, 5.00, 4.65
** 471794.172, 3679778.070, 31.54, 5.00, 4.65
** 471795.640, 3679772.492, 31.65, 5.00, 4.65
** 471758.650, 3679761.043, 30.92, 5.00, 4.65
** 471760.999, 3679755.171, 30.90, 5.00, 4.65
** 471797.989, 3679767.501, 31.78, 5.00, 4.65
** 471799.163, 3679762.217, 31.88, 5.00, 4.65
** 471764.228, 3679752.529, 30.88, 5.00, 4.65
** 471767.164, 3679743.428, 31.36, 5.00, 4.65
** 471608.634, 3679683.246, 30.24, 5.00, 4.65
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** 471616.573, 3679664.220, 30.01, 5.00, 4.65
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** 471626.244, 3679637.970, 29.52, 5.00, 4.65
** 471741.950, 3679685.634, 29.97, 5.00, 4.65
** 471743.677, 3679681.144, 29.97, 5.00, 4.65
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** 471630.389, 3679628.644, 29.32, 5.00, 4.65
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** 471632.461, 3679624.845, 29.41, 5.00, 4.65
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** 471735.042, 3679651.786, 33.73, 5.00, 4.65
** 471640.751, 3679613.102, 29.69, 5.00, 4.65
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   LOCATION L0000002     VOLUME   471620.259 3679693.152 30.29
   LOCATION L0000003     VOLUME   471629.636 3679696.628 30.23
   LOCATION L0000004     VOLUME   471639.012 3679700.104 30.19
   LOCATION L0000005     VOLUME   471648.389 3679703.580 30.15
   LOCATION L0000006     VOLUME   471657.765 3679707.056 30.11
   LOCATION L0000007     VOLUME   471667.142 3679710.531 30.05
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LOCATION L0000008     VOLUME   471676.518 3679714.007 29.99
LOCATION L0000009     VOLUME   471685.895 3679717.483 29.99
LOCATION L0000010     VOLUME   471695.271 3679720.959 30.05
LOCATION L0000011     VOLUME   471704.648 3679724.434 30.11
LOCATION L0000012     VOLUME   471714.024 3679727.910 30.30
LOCATION L0000013     VOLUME   471723.401 3679731.386 30.56
LOCATION L0000014     VOLUME   471732.777 3679734.862 30.85
LOCATION L0000015     VOLUME   471742.154 3679738.338 30.81
LOCATION L0000016     VOLUME   471751.530 3679741.813 30.74
LOCATION L0000017     VOLUME   471759.182 3679746.030 30.73
LOCATION L0000018     VOLUME   471755.243 3679755.221 30.82
LOCATION L0000019     VOLUME   471751.303 3679764.412 30.92
LOCATION L0000020     VOLUME   471748.797 3679772.945 30.94
LOCATION L0000021     VOLUME   471758.339 3679775.936 30.91
LOCATION L0000022     VOLUME   471767.881 3679778.927 31.00
LOCATION L0000023     VOLUME   471777.423 3679781.918 31.09
LOCATION L0000024     VOLUME   471786.966 3679784.908 31.26
LOCATION L0000025     VOLUME   471792.281 3679782.548 31.59
LOCATION L0000026     VOLUME   471782.719 3679779.622 31.16
LOCATION L0000027     VOLUME   471773.156 3679776.696 31.07
LOCATION L0000028     VOLUME   471763.594 3679773.770 30.97
LOCATION L0000029     VOLUME   471754.031 3679770.845 30.93
LOCATION L0000030     VOLUME   471759.190 3679766.320 30.91
LOCATION L0000031     VOLUME   471768.669 3679769.504 31.05
LOCATION L0000032     VOLUME   471778.149 3679772.688 31.16
LOCATION L0000033     VOLUME   471787.628 3679775.872 31.35
LOCATION L0000034     VOLUME   471794.960 3679775.075 31.68
LOCATION L0000035     VOLUME   471788.639 3679770.325 31.41
LOCATION L0000036     VOLUME   471779.086 3679767.368 31.22
LOCATION L0000037     VOLUME   471769.533 3679764.411 31.14
LOCATION L0000038     VOLUME   471759.980 3679761.454 30.89
LOCATION L0000039     VOLUME   471763.165 3679755.893 31.02
LOCATION L0000040     VOLUME   471772.652 3679759.056 31.40
LOCATION L0000041     VOLUME   471782.139 3679762.218 31.59
LOCATION L0000042     VOLUME   471791.626 3679765.380 31.71
LOCATION L0000043     VOLUME   471798.703 3679764.287 32.18
LOCATION L0000044     VOLUME   471791.570 3679760.111 32.34
LOCATION L0000045     VOLUME   471781.934 3679757.439 31.90
LOCATION L0000046     VOLUME   471772.298 3679754.767 31.54
LOCATION L0000047     VOLUME   471764.727 3679750.982 31.15
LOCATION L0000048     VOLUME   471765.235 3679742.696 31.27
LOCATION L0000049     VOLUME   471755.886 3679739.147 30.68
LOCATION L0000050     VOLUME   471746.537 3679735.598 30.76
LOCATION L0000051     VOLUME   471737.188 3679732.049 30.78
LOCATION L0000052     VOLUME   471727.839 3679728.499 30.57
LOCATION L0000053     VOLUME   471718.490 3679724.950 30.31
LOCATION L0000054     VOLUME   471709.141 3679721.401 30.08
LOCATION L0000055     VOLUME   471699.792 3679717.852 29.99
LOCATION L0000056     VOLUME   471690.443 3679714.303 29.93
LOCATION L0000057     VOLUME   471681.094 3679710.754 29.89
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LOCATION L0000058 VOLUME 471671.745 3679707.205 29.95
LOCATION L0000059 VOLUME 471662.396 3679703.655 30.01
LOCATION L0000060 VOLUME 471653.047 3679700.106 30.06
LOCATION L0000061 VOLUME 471643.698 3679696.557 30.10
LOCATION L0000062 VOLUME 471634.349 3679693.008 30.14
LOCATION L0000063 VOLUME 471625.000 3679689.459 30.20
LOCATION L0000064 VOLUME 471615.651 3679685.910 30.24
LOCATION L0000065 VOLUME 471609.934 3679681.117 30.23
LOCATION L0000066 VOLUME 471618.118 3679681.295 30.16
LOCATION L0000067 VOLUME 471627.459 3679684.864 30.12
LOCATION L0000068 VOLUME 471636.801 3679688.433 30.06
LOCATION L0000069 VOLUME 471646.143 3679692.001 30.01
LOCATION L0000070 VOLUME 471655.484 3679695.570 29.97
LOCATION L0000071 VOLUME 471664.826 3679699.139 29.92
LOCATION L0000072 VOLUME 471674.167 3679702.707 29.86
LOCATION L0000073 VOLUME 471683.509 3679706.276 29.81
LOCATION L0000074 VOLUME 471692.850 3679709.845 29.85
LOCATION L0000075 VOLUME 471702.192 3679713.413 29.90
LOCATION L0000076 VOLUME 471711.533 3679716.982 30.02
LOCATION L0000077 VOLUME 471720.875 3679720.551 30.24
LOCATION L0000078 VOLUME 471730.216 3679724.120 30.48
LOCATION L0000079 VOLUME 471739.558 3679727.688 30.74
LOCATION L0000080 VOLUME 471748.900 3679731.257 30.82
LOCATION L0000081 VOLUME 471758.241 3679734.826 30.70
LOCATION L0000082 VOLUME 471765.868 3679734.891 31.55
LOCATION L0000083 VOLUME 471763.423 3679727.969 31.77
LOCATION L0000084 VOLUME 471754.058 3679724.462 31.07
LOCATION L0000085 VOLUME 471744.693 3679720.955 30.85
LOCATION L0000086 VOLUME 471735.328 3679717.449 30.43
LOCATION L0000087 VOLUME 471725.963 3679713.942 30.13
LOCATION L0000088 VOLUME 471716.598 3679710.435 29.93
LOCATION L0000089 VOLUME 471707.233 3679706.929 29.77
LOCATION L0000090 VOLUME 471697.868 3679703.422 29.74
LOCATION L0000091 VOLUME 471688.503 3679699.916 29.72
LOCATION L0000092 VOLUME 471679.138 3679696.409 29.73
LOCATION L0000093 VOLUME 471669.773 3679692.902 29.78
LOCATION L0000094 VOLUME 471660.408 3679689.396 29.83
LOCATION L0000095 VOLUME 471651.043 3679685.889 29.87
LOCATION L0000096 VOLUME 471641.678 3679682.382 29.93
LOCATION L0000097 VOLUME 471632.313 3679678.876 30.00
LOCATION L0000098 VOLUME 471622.948 3679675.369 30.04
LOCATION L0000099 VOLUME 471613.583 3679671.862 30.06
LOCATION L0000100 VOLUME 471618.120 3679664.834 29.92
LOCATION L0000101 VOLUME 471627.413 3679668.526 29.91
LOCATION L0000102 VOLUME 471636.706 3679672.218 29.86
LOCATION L0000103 VOLUME 471646.000 3679675.911 29.79
LOCATION L0000104 VOLUME 471655.293 3679679.603 29.73
LOCATION L0000105 VOLUME 471664.587 3679683.295 29.70
LOCATION L0000106 VOLUME 471673.880 3679686.987 29.67
LOCATION L0000107 VOLUME 471683.174 3679690.679 29.64

LOCATION L0000108 VOLUME 471692.467 3679694.372 29.65
LOCATION L0000109 VOLUME 471701.760 3679698.064 29.66
LOCATION L0000110 VOLUME 471711.054 3679701.756 29.73
LOCATION L0000111 VOLUME 471720.347 3679705.448 29.85
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LOCATION L0000113 VOLUME 471738.934 3679712.833 30.54
LOCATION L0000114 VOLUME 471748.228 3679716.525 31.05
LOCATION L0000115 VOLUME 471757.521 3679720.217 31.35
LOCATION L0000116 VOLUME 471766.814 3679723.909 32.71
LOCATION L0000117 VOLUME 471768.063 3679719.844 33.36
LOCATION L0000118 VOLUME 471758.776 3679716.138 31.60
LOCATION L0000119 VOLUME 471749.488 3679712.431 31.20
LOCATION L0000120 VOLUME 471740.200 3679708.724 30.59
LOCATION L0000121 VOLUME 471730.913 3679705.018 29.94
LOCATION L0000122 VOLUME 471721.625 3679701.311 29.82
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LOCATION L0000124 VOLUME 471703.050 3679693.898 29.61
LOCATION L0000125 VOLUME 471693.762 3679690.191 29.60
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SRCPARAM L0000169     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000170     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000171     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000172     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000173     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000174     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000175     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000176     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000177     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000178     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000179     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000180     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000181     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000182     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000183     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000184     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000185     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000186     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000187     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000188     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000189     0.0037735849      5.00      4.65      4.65
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SRCPARAM L0000190     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000191     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000192     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000193     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000194     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000195     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000196     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000197     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000198     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000199     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000200     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000201     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000202     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000203     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000204     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000205     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000206     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000207     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000208     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000209     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000210     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000211     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000212     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000213     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000214     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000215     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000216     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000217     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000218     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000219     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000220     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000221     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000222     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000223     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000224     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000225     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000226     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000227     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000228     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000229     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000230     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000231     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000232     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000233     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000234     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000235     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000236     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000237     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000238     0.0037735849      5.00      4.65      4.65
SRCPARAM L0000239     0.0037735849      5.00      4.65      4.65
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   SRCPARAM L0000240     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000241     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000242     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000243     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000244     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000245     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000246     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000247     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000248     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000249     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000250     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000251     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000252     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000253     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000254     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000255     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000256     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000257     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000258     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000259     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000260     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000261     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000262     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000263     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000264     0.0037735849      5.00      4.65      4.65
   SRCPARAM L0000265     0.0037735849      5.00      4.65      4.65
** ------------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Oceanside-Pacifica-OnsiteRec.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\McClellanPalomar_2019_2021_v22112.SFC
   PROFFILE ..\McClellanPalomar_2019_2021_v22112.PFL
   SURFDATA 3177 2019
   UAIRDATA 3190 2019
```

```
   PROFBASE 92.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST Oceanside-Pacifica-OnsiteRec.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL Oceanside-Pacifica-OnsiteRec.AD\PE00GALL.PLT 32
   SUMMFILE Oceanside-Pacifica-OnsiteRec.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     650       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     650       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:29:36

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
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 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   265 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   3287306.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    265 Source(s);       1 Source Group(s); and     142
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    265 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
```

Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   92.00 ; Decay
Coef. =   0.000   ; Rot. Angle =   0.0
                  Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =   3.6 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: Oceanside-Pacifica-OnsiteRec.err

 **File for Summary of Results: Oceanside-Pacifica-OnsiteRec.sum

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0000001   0   0.37736E-02 471610.9 3679689.7   30.3   5.00   4.65
4.65   YES

L0000002	0	0.37736E-02	471620.3	3679693.2	30.3	5.00	4.65	4.65 YES
L0000003	0	0.37736E-02	471629.6	3679696.6	30.2	5.00	4.65	4.65 YES
L0000004	0	0.37736E-02	471639.0	3679700.1	30.2	5.00	4.65	4.65 YES
L0000005	0	0.37736E-02	471648.4	3679703.6	30.2	5.00	4.65	4.65 YES
L0000006	0	0.37736E-02	471657.8	3679707.1	30.1	5.00	4.65	4.65 YES
L0000007	0	0.37736E-02	471667.1	3679710.5	30.1	5.00	4.65	4.65 YES
L0000008	0	0.37736E-02	471676.5	3679714.0	30.0	5.00	4.65	4.65 YES
L0000009	0	0.37736E-02	471685.9	3679717.5	30.0	5.00	4.65	4.65 YES
L0000010	0	0.37736E-02	471695.3	3679721.0	30.1	5.00	4.65	4.65 YES
L0000011	0	0.37736E-02	471704.6	3679724.4	30.1	5.00	4.65	4.65 YES
L0000012	0	0.37736E-02	471714.0	3679727.9	30.3	5.00	4.65	4.65 YES
L0000013	0	0.37736E-02	471723.4	3679731.4	30.6	5.00	4.65	4.65 YES
L0000014	0	0.37736E-02	471732.8	3679734.9	30.9	5.00	4.65	4.65 YES
L0000015	0	0.37736E-02	471742.2	3679738.3	30.8	5.00	4.65	4.65 YES
L0000016	0	0.37736E-02	471751.5	3679741.8	30.7	5.00	4.65	4.65 YES
L0000017	0	0.37736E-02	471759.2	3679746.0	30.7	5.00	4.65	4.65 YES
L0000018	0	0.37736E-02	471755.2	3679755.2	30.8	5.00	4.65	4.65 YES
L0000019	0	0.37736E-02	471751.3	3679764.4	30.9	5.00	4.65	4.65 YES
L0000020	0	0.37736E-02	471748.8	3679772.9	30.9	5.00	4.65	4.65 YES
L0000021	0	0.37736E-02	471758.3	3679775.9	30.9	5.00	4.65	4.65 YES
L0000022	0	0.37736E-02	471767.9	3679778.9	31.0	5.00	4.65	4.65 YES
L0000023	0	0.37736E-02	471777.4	3679781.9	31.1	5.00	4.65	4.65 YES
L0000024	0	0.37736E-02	471787.0	3679784.9	31.3	5.00	4.65	4.65 YES
L0000025	0	0.37736E-02	471792.3	3679782.5	31.6	5.00	4.65	4.65 YES
L0000026	0	0.37736E-02	471782.7	3679779.6	31.2	5.00	4.65	4.65 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000027	0	0.37736E-02	471773.2	3679776.7	31.1	5.00	4.65	4.65	YES	
L0000028	0	0.37736E-02	471763.6	3679773.8	31.0	5.00	4.65	4.65	YES	
L0000029	0	0.37736E-02	471754.0	3679770.8	30.9	5.00	4.65	4.65	YES	
L0000030	0	0.37736E-02	471759.2	3679766.3	30.9	5.00	4.65	4.65	YES	
L0000031	0	0.37736E-02	471768.7	3679769.5	31.1	5.00	4.65	4.65	YES	
L0000032	0	0.37736E-02	471778.1	3679772.7	31.2	5.00	4.65	4.65	YES	
L0000033	0	0.37736E-02	471787.6	3679775.9	31.4	5.00	4.65	4.65	YES	
L0000034	0	0.37736E-02	471795.0	3679775.1	31.7	5.00	4.65	4.65	YES	
L0000035	0	0.37736E-02	471788.6	3679770.3	31.4	5.00	4.65	4.65	YES	
L0000036	0	0.37736E-02	471779.1	3679767.4	31.2	5.00	4.65	4.65	YES	
L0000037	0	0.37736E-02	471769.5	3679764.4	31.1	5.00	4.65	4.65	YES	
L0000038	0	0.37736E-02	471760.0	3679761.5	30.9	5.00	4.65	4.65	YES	
L0000039	0	0.37736E-02	471763.2	3679755.9	31.0	5.00	4.65	4.65	YES	
L0000040	0	0.37736E-02	471772.7	3679759.1	31.4	5.00	4.65	4.65	YES	
L0000041	0	0.37736E-02	471782.1	3679762.2	31.6	5.00	4.65	4.65	YES	

L0000042	0	0.37736E-02	471791.6	3679765.4	31.7	5.00	4.65	4.65 YES
L0000043	0	0.37736E-02	471798.7	3679764.3	32.2	5.00	4.65	4.65 YES
L0000044	0	0.37736E-02	471791.6	3679760.1	32.3	5.00	4.65	4.65 YES
L0000045	0	0.37736E-02	471781.9	3679757.4	31.9	5.00	4.65	4.65 YES
L0000046	0	0.37736E-02	471772.3	3679754.8	31.5	5.00	4.65	4.65 YES
L0000047	0	0.37736E-02	471764.7	3679751.0	31.2	5.00	4.65	4.65 YES
L0000048	0	0.37736E-02	471765.2	3679742.7	31.3	5.00	4.65	4.65 YES
L0000049	0	0.37736E-02	471755.9	3679739.1	30.7	5.00	4.65	4.65 YES
L0000050	0	0.37736E-02	471746.5	3679735.6	30.8	5.00	4.65	4.65 YES
L0000051	0	0.37736E-02	471737.2	3679732.0	30.8	5.00	4.65	4.65 YES
L0000052	0	0.37736E-02	471727.8	3679728.5	30.6	5.00	4.65	4.65 YES
L0000053	0	0.37736E-02	471718.5	3679724.9	30.3	5.00	4.65	4.65 YES
L0000054	0	0.37736E-02	471709.1	3679721.4	30.1	5.00	4.65	4.65 YES
L0000055	0	0.37736E-02	471699.8	3679717.9	30.0	5.00	4.65	4.65 YES
L0000056	0	0.37736E-02	471690.4	3679714.3	29.9	5.00	4.65	4.65 YES
L0000057	0	0.37736E-02	471681.1	3679710.8	29.9	5.00	4.65	4.65 YES
L0000058	0	0.37736E-02	471671.7	3679707.2	29.9	5.00	4.65	4.65 YES
L0000059	0	0.37736E-02	471662.4	3679703.7	30.0	5.00	4.65	4.65 YES
L0000060	0	0.37736E-02	471653.0	3679700.1	30.1	5.00	4.65	4.65 YES
L0000061	0	0.37736E-02	471643.7	3679696.6	30.1	5.00	4.65	4.65 YES
L0000062	0	0.37736E-02	471634.3	3679693.0	30.1	5.00	4.65	4.65 YES
L0000063	0	0.37736E-02	471625.0	3679689.5	30.2	5.00	4.65	4.65 YES
L0000064	0	0.37736E-02	471615.7	3679685.9	30.2	5.00	4.65	4.65 YES
L0000065	0	0.37736E-02	471609.9	3679681.1	30.2	5.00	4.65	4.65 YES
L0000066	0	0.37736E-02	471618.1	3679681.3	30.2	5.00	4.65	4.65 YES

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 L0000067         0   0.37736E-02  471627.5 3679684.9    30.1     5.00     4.65
4.65     YES
 L0000068         0   0.37736E-02  471636.8 3679688.4    30.1     5.00     4.65
4.65     YES
 L0000069         0   0.37736E-02  471646.1 3679692.0    30.0     5.00     4.65
4.65     YES
 L0000070         0   0.37736E-02  471655.5 3679695.6    30.0     5.00     4.65
4.65     YES
 L0000071         0   0.37736E-02  471664.8 3679699.1    29.9     5.00     4.65
4.65     YES
 L0000072         0   0.37736E-02  471674.2 3679702.7    29.9     5.00     4.65
4.65     YES
 L0000073         0   0.37736E-02  471683.5 3679706.3    29.8     5.00     4.65
4.65     YES
 L0000074         0   0.37736E-02  471692.8 3679709.8    29.9     5.00     4.65
4.65     YES
 L0000075         0   0.37736E-02  471702.2 3679713.4    29.9     5.00     4.65
4.65     YES
 L0000076         0   0.37736E-02  471711.5 3679717.0    30.0     5.00     4.65
4.65     YES
 L0000077         0   0.37736E-02  471720.9 3679720.6    30.2     5.00     4.65
4.65     YES
 L0000078         0   0.37736E-02  471730.2 3679724.1    30.5     5.00     4.65
4.65     YES
 L0000079         0   0.37736E-02  471739.6 3679727.7    30.7     5.00     4.65
4.65     YES
 L0000080         0   0.37736E-02  471748.9 3679731.3    30.8     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:29:36

                                PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000081         0   0.37736E-02  471758.2 3679734.8    30.7     5.00     4.65
4.65     YES
```

L0000082	0	0.37736E-02	471765.9	3679734.9	31.6	5.00	4.65	4.65 YES
L0000083	0	0.37736E-02	471763.4	3679728.0	31.8	5.00	4.65	4.65 YES
L0000084	0	0.37736E-02	471754.1	3679724.5	31.1	5.00	4.65	4.65 YES
L0000085	0	0.37736E-02	471744.7	3679721.0	30.9	5.00	4.65	4.65 YES
L0000086	0	0.37736E-02	471735.3	3679717.4	30.4	5.00	4.65	4.65 YES
L0000087	0	0.37736E-02	471726.0	3679713.9	30.1	5.00	4.65	4.65 YES
L0000088	0	0.37736E-02	471716.6	3679710.4	29.9	5.00	4.65	4.65 YES
L0000089	0	0.37736E-02	471707.2	3679706.9	29.8	5.00	4.65	4.65 YES
L0000090	0	0.37736E-02	471697.9	3679703.4	29.7	5.00	4.65	4.65 YES
L0000091	0	0.37736E-02	471688.5	3679699.9	29.7	5.00	4.65	4.65 YES
L0000092	0	0.37736E-02	471679.1	3679696.4	29.7	5.00	4.65	4.65 YES
L0000093	0	0.37736E-02	471669.8	3679692.9	29.8	5.00	4.65	4.65 YES
L0000094	0	0.37736E-02	471660.4	3679689.4	29.8	5.00	4.65	4.65 YES
L0000095	0	0.37736E-02	471651.0	3679685.9	29.9	5.00	4.65	4.65 YES
L0000096	0	0.37736E-02	471641.7	3679682.4	29.9	5.00	4.65	4.65 YES
L0000097	0	0.37736E-02	471632.3	3679678.9	30.0	5.00	4.65	4.65 YES
L0000098	0	0.37736E-02	471622.9	3679675.4	30.0	5.00	4.65	4.65 YES
L0000099	0	0.37736E-02	471613.6	3679671.9	30.1	5.00	4.65	4.65 YES
L0000100	0	0.37736E-02	471618.1	3679664.8	29.9	5.00	4.65	4.65 YES
L0000101	0	0.37736E-02	471627.4	3679668.5	29.9	5.00	4.65	4.65 YES
L0000102	0	0.37736E-02	471636.7	3679672.2	29.9	5.00	4.65	4.65 YES
L0000103	0	0.37736E-02	471646.0	3679675.9	29.8	5.00	4.65	4.65 YES
L0000104	0	0.37736E-02	471655.3	3679679.6	29.7	5.00	4.65	4.65 YES
L0000105	0	0.37736E-02	471664.6	3679683.3	29.7	5.00	4.65	4.65 YES
L0000106	0	0.37736E-02	471673.9	3679687.0	29.7	5.00	4.65	4.65 YES

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 L0000107         0   0.37736E-02  471683.2 3679690.7    29.6     5.00     4.65
4.65     YES
 L0000108         0   0.37736E-02  471692.5 3679694.4    29.7     5.00     4.65
4.65     YES
 L0000109         0   0.37736E-02  471701.8 3679698.1    29.7     5.00     4.65
4.65     YES
 L0000110         0   0.37736E-02  471711.1 3679701.8    29.7     5.00     4.65
4.65     YES
 L0000111         0   0.37736E-02  471720.3 3679705.4    29.9     5.00     4.65
4.65     YES
 L0000112         0   0.37736E-02  471729.6 3679709.1    30.0     5.00     4.65
4.65     YES
 L0000113         0   0.37736E-02  471738.9 3679712.8    30.5     5.00     4.65
4.65     YES
 L0000114         0   0.37736E-02  471748.2 3679716.5    31.1     5.00     4.65
4.65     YES
 L0000115         0   0.37736E-02  471757.5 3679720.2    31.4     5.00     4.65
4.65     YES
 L0000116         0   0.37736E-02  471766.8 3679723.9    32.7     5.00     4.65
4.65     YES
 L0000117         0   0.37736E-02  471768.1 3679719.8    33.4     5.00     4.65
4.65     YES
 L0000118         0   0.37736E-02  471758.8 3679716.1    31.6     5.00     4.65
4.65     YES
 L0000119         0   0.37736E-02  471749.5 3679712.4    31.2     5.00     4.65
4.65     YES
 L0000120         0   0.37736E-02  471740.2 3679708.7    30.6     5.00     4.65
4.65     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000121	0	0.37736E-02	471730.9	3679705.0	29.9	5.00	4.65	4.65	YES	

L0000122	0	0.37736E-02	471721.6	3679701.3	29.8	5.00	4.65	4.65	YES
L0000123	0	0.37736E-02	471712.3	3679697.6	29.7	5.00	4.65	4.65	YES
L0000124	0	0.37736E-02	471703.0	3679693.9	29.6	5.00	4.65	4.65	YES
L0000125	0	0.37736E-02	471693.8	3679690.2	29.6	5.00	4.65	4.65	YES
L0000126	0	0.37736E-02	471684.5	3679686.5	29.6	5.00	4.65	4.65	YES
L0000127	0	0.37736E-02	471675.2	3679682.8	29.6	5.00	4.65	4.65	YES
L0000128	0	0.37736E-02	471665.9	3679679.1	29.6	5.00	4.65	4.65	YES
L0000129	0	0.37736E-02	471656.6	3679675.4	29.7	5.00	4.65	4.65	YES
L0000130	0	0.37736E-02	471647.3	3679671.7	29.7	5.00	4.65	4.65	YES
L0000131	0	0.37736E-02	471638.0	3679668.0	29.8	5.00	4.65	4.65	YES
L0000132	0	0.37736E-02	471628.7	3679664.2	29.8	5.00	4.65	4.65	YES
L0000133	0	0.37736E-02	471619.5	3679660.5	29.9	5.00	4.65	4.65	YES
L0000134	0	0.37736E-02	471624.0	3679656.4	29.8	5.00	4.65	4.65	YES
L0000135	0	0.37736E-02	471633.3	3679660.1	29.7	5.00	4.65	4.65	YES
L0000136	0	0.37736E-02	471642.6	3679663.9	29.7	5.00	4.65	4.65	YES
L0000137	0	0.37736E-02	471651.9	3679667.6	29.6	5.00	4.65	4.65	YES
L0000138	0	0.37736E-02	471661.1	3679671.3	29.6	5.00	4.65	4.65	YES
L0000139	0	0.37736E-02	471670.4	3679675.1	29.6	5.00	4.65	4.65	YES
L0000140	0	0.37736E-02	471679.7	3679678.8	29.5	5.00	4.65	4.65	YES
L0000141	0	0.37736E-02	471689.0	3679682.5	29.5	5.00	4.65	4.65	YES
L0000142	0	0.37736E-02	471698.3	3679686.2	29.5	5.00	4.65	4.65	YES
L0000143	0	0.37736E-02	471707.5	3679690.0	29.6	5.00	4.65	4.65	YES
L0000144	0	0.37736E-02	471716.8	3679693.7	29.7	5.00	4.65	4.65	YES
L0000145	0	0.37736E-02	471726.1	3679697.4	29.8	5.00	4.65	4.65	YES
L0000146	0	0.37736E-02	471735.4	3679701.1	30.2	5.00	4.65	4.65	YES

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 L0000147         0   0.37736E-02  471744.7 3679704.9    31.0     5.00     4.65
4.65     YES
 L0000148         0   0.37736E-02  471753.9 3679708.6    31.6     5.00     4.65
4.65     YES
 L0000149         0   0.37736E-02  471763.2 3679712.3    32.9     5.00     4.65
4.65     YES
 L0000150         0   0.37736E-02  471762.0 3679707.2    32.9     5.00     4.65
4.65     YES
 L0000151         0   0.37736E-02  471752.7 3679703.5    31.9     5.00     4.65
4.65     YES
 L0000152         0   0.37736E-02  471743.5 3679699.8    31.2     5.00     4.65
4.65     YES
 L0000153         0   0.37736E-02  471734.2 3679696.0    30.1     5.00     4.65
4.65     YES
 L0000154         0   0.37736E-02  471724.9 3679692.3    29.8     5.00     4.65
4.65     YES
 L0000155         0   0.37736E-02  471715.6 3679688.5    29.6     5.00     4.65
4.65     YES
 L0000156         0   0.37736E-02  471706.4 3679684.8    29.5     5.00     4.65
4.65     YES
 L0000157         0   0.37736E-02  471697.1 3679681.0    29.5     5.00     4.65
4.65     YES
 L0000158         0   0.37736E-02  471687.8 3679677.3    29.5     5.00     4.65
4.65     YES
 L0000159         0   0.37736E-02  471678.5 3679673.5    29.5     5.00     4.65
4.65     YES
 L0000160         0   0.37736E-02  471669.3 3679669.8    29.5     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:29:36

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000161         0   0.37736E-02  471660.0 3679666.1    29.5     5.00     4.65
4.65     YES
```

L0000162	0	0.37736E-02	471650.7	3679662.3	29.6	5.00	4.65	4.65	YES
L0000163	0	0.37736E-02	471641.5	3679658.6	29.6	5.00	4.65	4.65	YES
L0000164	0	0.37736E-02	471632.2	3679654.8	29.7	5.00	4.65	4.65	YES
L0000165	0	0.37736E-02	471622.9	3679651.1	29.7	5.00	4.65	4.65	YES
L0000166	0	0.37736E-02	471624.0	3679645.5	29.6	5.00	4.65	4.65	YES
L0000167	0	0.37736E-02	471633.2	3679649.4	29.6	5.00	4.65	4.65	YES
L0000168	0	0.37736E-02	471642.5	3679653.2	29.6	5.00	4.65	4.65	YES
L0000169	0	0.37736E-02	471651.7	3679657.0	29.5	5.00	4.65	4.65	YES
L0000170	0	0.37736E-02	471660.9	3679660.9	29.5	5.00	4.65	4.65	YES
L0000171	0	0.37736E-02	471670.2	3679664.7	29.4	5.00	4.65	4.65	YES
L0000172	0	0.37736E-02	471679.4	3679668.5	29.4	5.00	4.65	4.65	YES
L0000173	0	0.37736E-02	471688.6	3679672.4	29.4	5.00	4.65	4.65	YES
L0000174	0	0.37736E-02	471697.9	3679676.2	29.4	5.00	4.65	4.65	YES
L0000175	0	0.37736E-02	471707.1	3679680.0	29.4	5.00	4.65	4.65	YES
L0000176	0	0.37736E-02	471716.3	3679683.9	29.6	5.00	4.65	4.65	YES
L0000177	0	0.37736E-02	471725.6	3679687.7	29.7	5.00	4.65	4.65	YES
L0000178	0	0.37736E-02	471734.8	3679691.6	30.2	5.00	4.65	4.65	YES
L0000179	0	0.37736E-02	471744.1	3679695.4	31.6	5.00	4.65	4.65	YES
L0000180	0	0.37736E-02	471753.3	3679699.2	32.6	5.00	4.65	4.65	YES
L0000181	0	0.37736E-02	471755.4	3679696.7	33.2	5.00	4.65	4.65	YES
L0000182	0	0.37736E-02	471746.2	3679692.9	32.2	5.00	4.65	4.65	YES
L0000183	0	0.37736E-02	471736.9	3679689.1	30.6	5.00	4.65	4.65	YES
L0000184	0	0.37736E-02	471727.7	3679685.3	29.7	5.00	4.65	4.65	YES
L0000185	0	0.37736E-02	471718.4	3679681.5	29.6	5.00	4.65	4.65	YES
L0000186	0	0.37736E-02	471709.2	3679677.7	29.4	5.00	4.65	4.65	YES

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 L0000187         0   0.37736E-02  471699.9 3679673.9    29.4     5.00     4.65
4.65     YES
 L0000188         0   0.37736E-02  471690.7 3679670.1    29.4     5.00     4.65
4.65     YES
 L0000189         0   0.37736E-02  471681.4 3679666.2    29.4     5.00     4.65
4.65     YES
 L0000190         0   0.37736E-02  471672.2 3679662.4    29.4     5.00     4.65
4.65     YES
 L0000191         0   0.37736E-02  471662.9 3679658.6    29.4     5.00     4.65
4.65     YES
 L0000192         0   0.37736E-02  471653.7 3679654.8    29.5     5.00     4.65
4.65     YES
 L0000193         0   0.37736E-02  471644.4 3679651.0    29.5     5.00     4.65
4.65     YES
 L0000194         0   0.37736E-02  471635.2 3679647.2    29.6     5.00     4.65
4.65     YES
 L0000195         0   0.37736E-02  471626.0 3679643.4    29.6     5.00     4.65
4.65     YES
 L0000196         0   0.37736E-02  471629.3 3679639.2    29.5     5.00     4.65
4.65     YES
 L0000197         0   0.37736E-02  471638.6 3679643.0    29.5     5.00     4.65
4.65     YES
 L0000198         0   0.37736E-02  471647.8 3679646.8    29.4     5.00     4.65
4.65     YES
 L0000199         0   0.37736E-02  471657.0 3679650.7    29.4     5.00     4.65
4.65     YES
 L0000200         0   0.37736E-02  471666.3 3679654.5    29.4     5.00     4.65
4.65     YES
```



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                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000201         0   0.37736E-02  471675.5 3679658.3    29.4     5.00     4.65
4.65     YES
```

L0000202	0	0.37736E-02	471684.8	3679662.1	29.4	5.00	4.65	4.65 YES
L0000203	0	0.37736E-02	471694.0	3679665.9	29.5	5.00	4.65	4.65 YES
L0000204	0	0.37736E-02	471703.3	3679669.7	29.5	5.00	4.65	4.65 YES
L0000205	0	0.37736E-02	471712.5	3679673.5	29.5	5.00	4.65	4.65 YES
L0000206	0	0.37736E-02	471721.8	3679677.3	29.6	5.00	4.65	4.65 YES
L0000207	0	0.37736E-02	471731.0	3679681.1	29.7	5.00	4.65	4.65 YES
L0000208	0	0.37736E-02	471740.3	3679684.9	31.5	5.00	4.65	4.65 YES
L0000209	0	0.37736E-02	471740.5	3679679.9	31.8	5.00	4.65	4.65 YES
L0000210	0	0.37736E-02	471731.2	3679676.2	29.6	5.00	4.65	4.65 YES
L0000211	0	0.37736E-02	471721.9	3679672.6	29.7	5.00	4.65	4.65 YES
L0000212	0	0.37736E-02	471712.6	3679668.9	29.7	5.00	4.65	4.65 YES
L0000213	0	0.37736E-02	471703.3	3679665.2	29.6	5.00	4.65	4.65 YES
L0000214	0	0.37736E-02	471694.0	3679661.6	29.5	5.00	4.65	4.65 YES
L0000215	0	0.37736E-02	471684.7	3679657.9	29.4	5.00	4.65	4.65 YES
L0000216	0	0.37736E-02	471675.4	3679654.2	29.3	5.00	4.65	4.65 YES
L0000217	0	0.37736E-02	471666.1	3679650.5	29.3	5.00	4.65	4.65 YES
L0000218	0	0.37736E-02	471656.8	3679646.9	29.4	5.00	4.65	4.65 YES
L0000219	0	0.37736E-02	471647.5	3679643.2	29.4	5.00	4.65	4.65 YES
L0000220	0	0.37736E-02	471638.2	3679639.5	29.5	5.00	4.65	4.65 YES
L0000221	0	0.37736E-02	471629.0	3679635.8	29.4	5.00	4.65	4.65 YES
L0000222	0	0.37736E-02	471632.9	3679629.7	29.4	5.00	4.65	4.65 YES
L0000223	0	0.37736E-02	471642.2	3679633.4	29.5	5.00	4.65	4.65 YES
L0000224	0	0.37736E-02	471651.4	3679637.2	29.5	5.00	4.65	4.65 YES
L0000225	0	0.37736E-02	471660.7	3679641.0	29.5	5.00	4.65	4.65 YES
L0000226	0	0.37736E-02	471669.9	3679644.8	29.3	5.00	4.65	4.65 YES

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 L0000227         0   0.37736E-02  471679.2 3679648.5    29.2     5.00     4.65
4.65     YES
 L0000228         0   0.37736E-02  471688.5 3679652.3    29.5     5.00     4.65
4.65     YES
 L0000229         0   0.37736E-02  471697.7 3679656.1    29.7     5.00     4.65
4.65     YES
 L0000230         0   0.37736E-02  471707.0 3679659.9    29.8     5.00     4.65
4.65     YES
 L0000231         0   0.37736E-02  471716.2 3679663.6    30.2     5.00     4.65
4.65     YES
 L0000232         0   0.37736E-02  471725.5 3679667.4    30.4     5.00     4.65
4.65     YES
 L0000233         0   0.37736E-02  471731.0 3679663.6    31.1     5.00     4.65
4.65     YES
 L0000234         0   0.37736E-02  471722.6 3679659.5    31.0     5.00     4.65
4.65     YES
 L0000235         0   0.37736E-02  471713.3 3679655.9    30.5     5.00     4.65
4.65     YES
 L0000236         0   0.37736E-02  471704.0 3679652.4    29.9     5.00     4.65
4.65     YES
 L0000237         0   0.37736E-02  471694.6 3679648.8    29.7     5.00     4.65
4.65     YES
 L0000238         0   0.37736E-02  471685.3 3679645.2    29.4     5.00     4.65
4.65     YES
 L0000239         0   0.37736E-02  471676.0 3679641.6    29.5     5.00     4.65
4.65     YES
 L0000240         0   0.37736E-02  471666.6 3679638.0    29.7     5.00     4.65
4.65     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:29:36

                                PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0000241         0   0.37736E-02  471657.3 3679634.4    29.7     5.00     4.65
4.65     YES
```

```
 L0000242         0   0.37736E-02  471648.0 3679630.8    29.6     5.00     4.65
4.65     YES
 L0000243         0   0.37736E-02  471638.6 3679627.2    29.4     5.00     4.65
4.65     YES
 L0000244         0   0.37736E-02  471634.2 3679622.0    29.3     5.00     4.65
4.65     YES
 L0000245         0   0.37736E-02  471642.4 3679622.2    29.6     5.00     4.65
4.65     YES
 L0000246         0   0.37736E-02  471651.8 3679625.7    29.8     5.00     4.65
4.65     YES
 L0000247         0   0.37736E-02  471661.2 3679629.2    30.0     5.00     4.65
4.65     YES
 L0000248         0   0.37736E-02  471670.5 3679632.8    30.2     5.00     4.65
4.65     YES
 L0000249         0   0.37736E-02  471679.9 3679636.3    30.1     5.00     4.65
4.65     YES
 L0000250         0   0.37736E-02  471689.3 3679639.8    30.1     5.00     4.65
4.65     YES
 L0000251         0   0.37736E-02  471698.6 3679643.3    30.0     5.00     4.65
4.65     YES
 L0000252         0   0.37736E-02  471708.0 3679646.8    30.3     5.00     4.65
4.65     YES
 L0000253         0   0.37736E-02  471717.4 3679650.3    31.2     5.00     4.65
4.65     YES
 L0000254         0   0.37736E-02  471726.7 3679653.8    31.9     5.00     4.65
4.65     YES
 L0000255         0   0.37736E-02  471734.4 3679653.5    32.9     5.00     4.65
4.65     YES
 L0000256         0   0.37736E-02  471727.5 3679648.7    32.6     5.00     4.65
4.65     YES
 L0000257         0   0.37736E-02  471718.3 3679644.9    31.8     5.00     4.65
4.65     YES
 L0000258         0   0.37736E-02  471709.0 3679641.1    31.1     5.00     4.65
4.65     YES
 L0000259         0   0.37736E-02  471699.8 3679637.3    31.1     5.00     4.65
4.65     YES
 L0000260         0   0.37736E-02  471690.5 3679633.5    31.1     5.00     4.65
4.65     YES
 L0000261         0   0.37736E-02  471681.3 3679629.7    31.0     5.00     4.65
4.65     YES
 L0000262         0   0.37736E-02  471672.0 3679625.9    30.9     5.00     4.65
4.65     YES
 L0000263         0   0.37736E-02  471662.7 3679622.1    30.5     5.00     4.65
4.65     YES
 L0000264         0   0.37736E-02  471653.5 3679618.3    30.0     5.00     4.65
4.65     YES
 L0000265         0   0.37736E-02  471644.2 3679614.5    29.7     5.00     4.65
4.65     YES
↟ *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,

L0000102   , L0000103   , L0000104   ,

             L0000105   , L0000106   , L0000107   , L0000108   , L0000109   ,
L0000110   , L0000111   , L0000112   ,

             L0000113   , L0000114   , L0000115   , L0000116   , L0000117   ,
L0000118   , L0000119   , L0000120   ,

             L0000121   , L0000122   , L0000123   , L0000124   , L0000125   ,
L0000126   , L0000127   , L0000128   ,

             L0000129   , L0000130   , L0000131   , L0000132   , L0000133   ,
L0000134   , L0000135   , L0000136   ,

             L0000137   , L0000138   , L0000139   , L0000140   , L0000141   ,
L0000142   , L0000143   , L0000144   ,

             L0000145   , L0000146   , L0000147   , L0000148   , L0000149   ,
L0000150   , L0000151   , L0000152   ,

             L0000153   , L0000154   , L0000155   , L0000156   , L0000157   ,
L0000158   , L0000159   , L0000160   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

             L0000161   , L0000162   , L0000163   , L0000164   , L0000165   ,
L0000166   , L0000167   , L0000168   ,

             L0000169   , L0000170   , L0000171   , L0000172   , L0000173   ,
L0000174   , L0000175   , L0000176   ,

             L0000177   , L0000178   , L0000179   , L0000180   , L0000181   ,
L0000182   , L0000183   , L0000184   ,

             L0000185   , L0000186   , L0000187   , L0000188   , L0000189   ,
L0000190   , L0000191   , L0000192   ,

             L0000193   , L0000194   , L0000195   , L0000196   , L0000197   ,

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L0000198    , L0000199    , L0000200    ,

             L0000201    , L0000202    , L0000203    , L0000204    , L0000205    ,
L0000206    , L0000207    , L0000208    ,

             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
L0000214    , L0000215    , L0000216    ,

             L0000217    , L0000218    , L0000219    , L0000220    , L0000221    ,
L0000222    , L0000223    , L0000224    ,

             L0000225    , L0000226    , L0000227    , L0000228    , L0000229    ,
L0000230    , L0000231    , L0000232    ,

             L0000233    , L0000234    , L0000235    , L0000236    , L0000237    ,
L0000238    , L0000239    , L0000240    ,

             L0000241    , L0000242    , L0000243    , L0000244    , L0000245    ,
L0000246    , L0000247    , L0000248    ,

             L0000249    , L0000250    , L0000251    , L0000252    , L0000253    ,
L0000254    , L0000255    , L0000256    ,

             L0000257    , L0000258    , L0000259    , L0000260    , L0000261    ,
L0000262    , L0000263    , L0000264    ,

             L0000265    ,
↟ *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


              3287306.   L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    ,
 L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,
```

```
            L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

            L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

            L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

            L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

            L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

            L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

            L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

            L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

            L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

            L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

            L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

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L0000110    , L0000111    , L0000112    ,

            L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
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L0000134    , L0000135    , L0000136    ,

            L0000137    , L0000138    , L0000139    , L0000140    , L0000141    ,
L0000142    , L0000143    , L0000144    ,

            L0000145    , L0000146    , L0000147    , L0000148    , L0000149    ,
L0000150    , L0000151    , L0000152    ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
L0000166 , L0000167 , L0000168 ,

L0000169 , L0000170 , L0000171 , L0000172 , L0000173 ,
L0000174 , L0000175 , L0000176 ,

L0000177 , L0000178 , L0000179 , L0000180 , L0000181 ,
L0000182 , L0000183 , L0000184 ,

L0000185 , L0000186 , L0000187 , L0000188 , L0000189 ,
L0000190 , L0000191 , L0000192 ,

L0000193 , L0000194 , L0000195 , L0000196 , L0000197 ,
L0000198 , L0000199 , L0000200 ,

L0000201 , L0000202 , L0000203 , L0000204 , L0000205 ,
L0000206 , L0000207 , L0000208 ,

L0000209 , L0000210 , L0000211 , L0000212 , L0000213 ,
L0000214 , L0000215 , L0000216 ,

L0000217 , L0000218 , L0000219 , L0000220 , L0000221 ,
L0000222 , L0000223 , L0000224 ,

L0000225 , L0000226 , L0000227 , L0000228 , L0000229 ,
L0000230 , L0000231 , L0000232 ,

L0000233 , L0000234 , L0000235 , L0000236 , L0000237 ,
L0000238 , L0000239 , L0000240 ,

L0000241 , L0000242 , L0000243 , L0000244 , L0000245 ,

L0000246   , L0000247   , L0000248   ,

             L0000249   , L0000250   , L0000251   , L0000252   , L0000253   ,
L0000254   , L0000255   , L0000256   ,

             L0000257   , L0000258   , L0000259   , L0000260   , L0000261   ,
L0000262   , L0000263   , L0000264   ,

             L0000265   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (471673.1, 3679746.4,   30.6,   54.9,   0.0);   (471681.7,
3679746.4,   30.5,   54.9,   0.0);
     (471690.3, 3679746.4,   30.5,   49.9,   0.0);   (471698.8,
3679746.4,   30.5,   49.9,   0.0);
     (471707.4, 3679746.4,   30.5,   42.7,   0.0);   (471716.0,
3679746.4,   30.7,   42.7,   0.0);
     (471733.1, 3679746.4,   30.9,   39.9,   0.0);   (471741.7,
3679746.4,   30.9,   39.9,   0.0);
     (471621.7, 3679753.1,   31.3,   55.8,   0.0);   (471681.7,
3679753.1,   30.6,   54.9,   0.0);
     (471690.3, 3679753.1,   30.6,   49.9,   0.0);   (471698.8,
3679753.1,   30.7,   49.9,   0.0);
     (471707.4, 3679753.1,   30.7,   49.9,   0.0);   (471724.5,
3679753.1,   30.9,   42.0,   0.0);
     (471733.1, 3679753.1,   31.0,   42.0,   0.0);   (471741.7,
3679753.1,   30.9,   39.9,   0.0);
     (471621.7, 3679759.8,   31.4,   55.8,   0.0);   (471630.3,
3679759.8,   31.3,   55.8,   0.0);
     (471638.8, 3679759.8,   31.2,   55.8,   0.0);   (471698.8,
3679759.8,   30.8,   49.9,   0.0);
     (471707.4, 3679759.8,   30.8,   49.9,   0.0);   (471724.5,
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     (471733.1, 3679759.8,   31.0,   42.0,   0.0);   (471741.7,
3679759.8,   30.9,   42.0,   0.0);
     (471613.1, 3679766.4,   31.7,   55.8,   0.0);   (471621.7,
3679766.4,   31.5,   55.8,   0.0);
     (471630.3, 3679766.4,   31.4,   55.8,   0.0);   (471638.8,
3679766.4,   31.3,   55.8,   0.0);
     (471647.4, 3679766.4,   31.2,   55.8,   0.0);   (471656.0,

```
3679766.4,      31.1,      55.8,       0.0);
     ( 471724.5, 3679766.4,      31.0,      48.5,       0.0);         ( 471733.1,
3679766.4,      31.0,      48.5,       0.0);
     ( 471741.7, 3679766.4,      31.0,      42.0,       0.0);         ( 471613.1,
3679773.1,      32.4,      55.8,       0.0);
     ( 471621.7, 3679773.1,      31.9,      55.8,       0.0);         ( 471630.3,
3679773.1,      31.5,      55.8,       0.0);
     ( 471638.8, 3679773.1,      31.4,      55.8,       0.0);         ( 471647.4,
3679773.1,      31.2,      55.8,       0.0);
     ( 471656.0, 3679773.1,      31.1,      55.8,       0.0);         ( 471664.6,
3679773.1,      31.0,      55.8,       0.0);
     ( 471673.1, 3679773.1,      31.0,      55.8,       0.0);         ( 471724.5,
3679773.1,      31.0,      49.9,       0.0);
     ( 471733.1, 3679773.1,      31.0,      48.5,       0.0);         ( 471741.7,
3679773.1,      31.0,      48.5,       0.0);
     ( 471613.1, 3679779.8,      33.1,      55.8,       0.0);         ( 471621.7,
3679779.8,      32.3,      55.8,       0.0);
     ( 471630.3, 3679779.8,      31.6,      55.8,       0.0);         ( 471638.8,
3679779.8,      31.4,      55.8,       0.0);
     ( 471647.4, 3679779.8,      31.2,      55.8,       0.0);         ( 471656.0,
3679779.8,      31.1,      55.8,       0.0);
     ( 471664.6, 3679779.8,      31.0,      55.8,       0.0);         ( 471673.1,
3679779.8,      31.0,      55.8,       0.0);
     ( 471681.7, 3679779.8,      30.9,      55.8,       0.0);         ( 471690.3,
3679779.8,      30.9,      55.8,       0.0);
     ( 471741.7, 3679779.8,      31.0,      49.1,       0.0);         ( 471613.1,
3679786.4,      33.9,      55.8,       0.0);
     ( 471621.7, 3679786.4,      32.8,      55.8,       0.0);         ( 471630.3,
3679786.4,      31.7,      56.0,       0.0);
     ( 471638.8, 3679786.4,      31.4,      56.0,       0.0);         ( 471647.4,
3679786.4,      31.2,      56.0,       0.0);
     ( 471656.0, 3679786.4,      31.0,      55.8,       0.0);         ( 471664.6,
3679786.4,      31.0,      55.8,       0.0);
     ( 471673.1, 3679786.4,      30.9,      55.8,       0.0);         ( 471681.7,
3679786.4,      30.9,      55.8,       0.0);
     ( 471690.3, 3679786.4,      30.9,      55.8,       0.0);         ( 471698.8,
3679786.4,      30.9,      55.8,       0.0);
     ( 471707.4, 3679786.4,      30.9,      54.9,       0.0);         ( 471621.7,
3679793.1,      33.2,      55.8,       0.0);
     ( 471630.3, 3679793.1,      31.8,      56.0,       0.0);         ( 471638.8,
3679793.1,      31.5,      56.0,       0.0);
     ( 471647.4, 3679793.1,      31.2,      56.0,       0.0);         ( 471656.0,
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     ( 471664.6, 3679793.1,      31.0,      56.0,       0.0);         ( 471673.1,
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     ( 471681.7, 3679793.1,      30.9,      55.8,       0.0);         ( 471690.3,
3679793.1,      30.9,      55.8,       0.0);
     ( 471698.8, 3679793.1,      30.9,      55.8,       0.0);         ( 471707.4,
3679793.1,      31.0,      55.8,       0.0);
     ( 471716.0, 3679793.1,      31.0,      54.9,       0.0);         ( 471724.5,
```

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (471733.1, 3679799.8,   31.0,   54.9,   0.0);   (471664.6,
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     (471673.1, 3679806.4,   32.9,   55.8,   0.0);   (471681.7,
3679806.4,   32.4,   55.8,   0.0);
     (471690.3, 3679806.4,   32.0,   55.8,   0.0);   (471698.8,
3679806.4,   31.5,   55.8,   0.0);
     (471707.4, 3679806.4,   31.1,   55.8,   0.0);   (471716.0,
3679806.4,   31.1,   55.8,   0.0);
     (471724.5, 3679806.4,   31.1,   55.8,   0.0);   (471733.1,
3679806.4,   31.1,   54.9,   0.0);
     (471681.7, 3679813.1,   33.6,   55.8,   0.0);   (471690.3,
3679813.1,   32.8,   55.8,   0.0);
     (471698.8, 3679813.1,   32.0,   55.8,   0.0);   (471707.4,
3679813.1,   31.2,   55.8,   0.0);
     (471716.0, 3679813.1,   31.2,   55.8,   0.0);   (471724.5,
3679813.1,   31.2,   55.8,   0.0);
     (471698.8, 3679819.8,   32.4,   55.8,   0.0);   (471707.4,
3679819.8,   31.2,   55.8,   0.0);
     (471716.0, 3679819.8,   31.2,   55.8,   0.0);   (471724.5,
3679819.8,   31.3,   55.8,   0.0);
     (471741.7, 3679819.8,   31.3,   54.9,   0.0);   (471716.0,
3679826.5,   31.3,   55.8,   0.0);
     (471724.5, 3679826.5,   31.4,   55.8,   0.0);   (471741.7,
3679826.5,   31.4,   54.9,   0.0);
     (471741.7, 3679833.1,   32.2,   54.9,   0.0);   (471610.9,
3679704.2,   30.5,   49.9,   0.0);
     (471609.6, 3679708.7,   30.6,   49.9,   0.0);   (471607.1,

3679714.1,   30.8,   49.9,   0.0);
     (471605.8, 3679718.3,   30.9,   49.9,   0.0);   (471603.8,
3679722.8,   31.0,   54.9,   0.0);
     (471599.7, 3679732.2,   31.2,   54.9,   0.0);   (471638.5,
3679716.6,   30.4,   49.9,   0.0);
     (471636.7, 3679721.7,   30.5,   49.9,   0.0);   (471631.3,
3679732.3,   30.8,   54.9,   0.0);
     (471640.3, 3679708.7,   30.3,   49.9,   0.0);   (471612.1,
3679699.5,   30.5,   49.9,   0.0);
     (471658.3, 3679716.8,   30.2,   49.9,   0.0);   (471655.4,
3679721.3,   30.3,   49.9,   0.0);
     (471653.8, 3679725.1,   30.4,   49.9,   0.0);   (471652.2,
3679731.1,   30.5,   54.9,   0.0);
     (471648.9, 3679739.4,   30.6,   54.9,   0.0);   (471680.5,
3679737.2,   30.3,   49.9,   0.0);
     (471682.6, 3679731.4,   30.2,   49.9,   0.0);   (471683.5,
3679727.5,   30.2,   49.9,   0.0);
     (471694.7, 3679738.3,   30.4,   49.9,   0.0);   (471696.2,
3679734.5,   30.3,   49.9,   0.0);
     (471707.9, 3679737.0,   30.4,   42.7,   0.0);   (471736.0,
3679749.1,   30.9,   39.9,   0.0);
     (471760.7, 3679792.0,   30.9,   48.5,   0.0);   (471752.4,
3679789.7,   30.9,   49.1,   0.0);
     (471749.3, 3679807.0,   31.1,   49.1,   0.0);   (471744.0,
3679814.3,   31.2,   54.9,   0.0);

                     * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
BE PERFORMED *
                       LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
FASTAREA/FASTALL

                            SOURCE   - - RECEPTOR LOCATION - -
DISTANCE
                              ID   XR (METERS)   YR (METERS)
(METERS)
                           -
- - -

                            L0000001   471612.1   3679699.5
-0.07
                            L0000002   471612.1   3679699.5
0.32

	L0000004	471640.3	3679708.7
-1.29			
	L0000005	471640.3	3679708.7
-0.39			
	L0000006	471658.3	3679716.8
-0.21			
	L0000007	471658.3	3679716.8
0.86			
	L0000009	471683.5	3679727.5
0.26			
	L0000015	471741.7	3679746.4
-1.90			
	L0000016	471741.7	3679746.4
0.87			
	L0000019	471741.7	3679759.8
0.68			
	L0000019	471741.7	3679766.4
-0.17			
	L0000020	471741.7	3679766.4
-0.36			
	L0000020	471741.7	3679773.1
-2.89			
	L0000020	471741.7	3679779.8
-0.14			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\McClellanPalomar_2019_2021_v22112.SFC
Met Version: 22112
Profile file: ..\McClellanPalomar_2019_2021_v22112.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3177 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	1.00	1.57	25.	7.9	280.3	2.0
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	1.00	1.79	35.	7.9	279.8	2.0
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	1.00	2.45	31.	7.9	279.2	2.0
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	1.00	1.77	41.	7.9	278.1	2.0

```
 19 01 01   1 05  -13.0  0.143 -9.000 -9.000 -999.  129.     22.4  0.03   0.93
1.00    2.18   30.    7.9  279.2    2.0
 19 01 01   1 06  -12.3  0.139 -9.000 -9.000 -999.  124.     21.2  0.03   0.93
1.00    2.10   24.    7.9  278.8    2.0
 19 01 01   1 07  -13.6  0.146 -9.000 -9.000 -999.  134.     23.5  0.03   0.93
1.00    2.20    6.    7.9  279.8    2.0
 19 01 01   1 08  -15.9  0.231 -9.000 -9.000 -999.  267.     69.9  0.03   0.93
0.50    3.42   40.    7.9  280.9    2.0
 19 01 01   1 09   30.2  0.206  0.499  0.005  148.  225.    -26.1  0.03   0.93
0.29    2.61   41.    7.9  283.1    2.0
 19 01 01   1 10   77.6  0.226  0.818  0.005  254.  258.    -13.4  0.03   0.93
0.22    2.67    7.    7.9  284.8    2.0
 19 01 01   1 11  110.3  0.226  1.328  0.005  763.  257.     -9.4  0.03   0.93
0.20    2.57   17.    7.9  286.4    2.0
 19 01 01   1 12  125.8  0.231  1.462  0.005  892.  267.     -8.8  0.03   0.93
0.19    2.62    2.    7.9  287.0    2.0
 19 01 01   1 13  123.8  0.281  1.512  0.005 1004.  358.    -16.1  0.03   0.93
0.19    3.35  353.    7.9  287.5    2.0
 19 01 01   1 14  104.6  0.245  1.470  0.005 1090.  292.    -12.7  0.03   0.93
0.20    2.88    7.    7.9  288.8    2.0
 19 01 01   1 15   68.4  0.246  1.295  0.005 1142.  293.    -19.6  0.03   0.93
0.23    3.07   64.    7.9  288.8    2.0
 19 01 01   1 16   18.1  0.311  0.835  0.005 1153.  416.   -149.4  0.03   0.93
0.32    4.29   87.    7.9  287.0    2.0
 19 01 01   1 17  -24.0  0.270 -9.000 -9.000 -999.  337.     79.9  0.03   0.93
0.60    3.93  114.    7.9  285.3    2.0
 19 01 01   1 18   -6.3  0.099 -9.000 -9.000 -999.  106.     13.6  0.03   0.93
1.00    1.53  116.    7.9  283.8    2.0
 19 01 01   1 19   -6.7  0.101 -9.000 -9.000 -999.   78.     14.0  0.03   0.93
1.00    1.57   98.    7.9  282.0    2.0
 19 01 01   1 20   -3.4  0.072 -9.000 -9.000 -999.   47.     10.0  0.03   0.93
1.00    1.11   98.    7.9  279.8    2.0
 19 01 01   1 21   -5.6  0.092 -9.000 -9.000 -999.   67.     12.5  0.03   0.93
1.00    1.43   25.    7.9  279.8    2.0
 19 01 01   1 22   -7.2  0.105 -9.000 -9.000 -999.   81.     14.3  0.03   0.93
1.00    1.64   39.    7.9  279.2    2.0
 19 01 01   1 23  -16.3  0.161 -9.000 -9.000 -999.  155.     28.5  0.03   0.93
1.00    2.44   49.    7.9  279.2    2.0
 19 01 01   1 24  -25.8  0.257 -9.000 -9.000 -999.  312.     72.5  0.03   0.93
1.00    3.83   69.    7.9  280.3    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 19 01 01 01    7.9 1   25.    1.57   280.4   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
471673.13	3679746.42	102.82370	471681.70	3679746.42	109.33450
471690.27	3679746.42	116.09822	471698.84	3679746.42	123.15446
471707.41	3679746.42	130.57389	471715.98	3679746.42	138.66893
471733.12	3679746.42	157.53906	471741.69	3679746.42	158.92239
471621.71	3679753.09	62.66257	471681.70	3679753.09	97.89489
471690.27	3679753.09	103.57449	471698.84	3679753.09	109.50647
471707.41	3679753.09	115.76663	471724.55	3679753.09	130.24306
471733.12	3679753.09	139.01397	471741.69	3679753.09	149.42318
471621.71	3679759.76	58.01797	471630.28	3679759.76	61.98757
471638.85	3679759.76	66.07749	471698.84	3679759.76	98.22088
471707.41	3679759.76	103.67500	471724.55	3679759.76	116.78632
471733.12	3679759.76	125.51193	471741.69	3679759.76	133.34144

```
         471613.14    3679766.43       50.51906                    471621.71
3679766.43       53.87214
         471630.28    3679766.43       57.33580                    471638.85
3679766.43       60.88858
         471647.42    3679766.43       64.53565                    471655.99
3679766.43       68.27197
         471724.55    3679766.43      105.34376                    471733.12
3679766.43      114.04805
         471741.69    3679766.43      118.97297                    471613.14
3679773.10       47.02328
         471621.71    3679773.10       50.07365                    471630.28
3679773.10       53.19425
         471638.85    3679773.10       56.30294                    471647.42
3679773.10       59.48547
         471655.99    3679773.10       62.72843                    471664.56
3679773.10       66.02124
         471673.13    3679773.10       69.39188                    471724.55
3679773.10       95.00664
         471733.12    3679773.10      103.01012                    471741.69
3679773.10      110.65383
         471613.14    3679779.77       43.77765                    471621.71
3679779.77       46.62158
         471630.28    3679779.77       49.48612                    471638.85
3679779.77       52.21674
         471647.42    3679779.77       55.00166                    471655.99
3679779.77       57.82892
         471664.56    3679779.77       60.68311                    471673.13
3679779.77       63.59511
         471681.70    3679779.77       66.58404                    471690.27
3679779.77       69.68617
         471741.69    3679779.77       97.58065                    471613.14
3679786.44       40.79650
         471621.71    3679786.44       43.49095                    471630.28
3679786.44       46.14261
         471638.85    3679786.44       48.55224                    471647.42
3679786.44       50.99708
         471655.99    3679786.44       53.46824                    471664.56
3679786.44       55.94796
         471673.13    3679786.44       58.47053                    471681.70
3679786.44       61.05008
         471690.27    3679786.44       63.72136                    471698.84
3679786.44       66.53653
         471707.41    3679786.44       69.58696                    471621.71
3679793.11       40.64339
         471630.28    3679793.11       43.11903                    471638.85
3679793.11       45.25259
         471647.42    3679793.11       47.40680                    471655.99
3679793.11       49.57050
         471664.56    3679793.11       51.73131                    471673.13
3679793.11       53.92124
```

                             *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         471647.42   3679799.78   44.07141   471655.99
3679799.78   45.99951
         471664.56   3679799.78   47.91046   471673.13
3679799.78   49.84032
         471681.70   3679799.78   51.79738   471690.27
3679799.78   53.79436
         471698.84   3679799.78   55.86931   471707.41
3679799.78   58.06487
         471715.98   3679799.78   60.45221   471724.55
3679799.78   63.09211
         471733.12   3679799.78   66.01039   471664.56
3679806.45   43.91536
         471673.13   3679806.45   45.76388   471681.70
3679806.45   47.62606
         471690.27   3679806.45   49.49134   471698.84

```
3679806.45       51.39040
         471707.41    3679806.45       53.29727                       471715.98
3679806.45       55.27724
         471724.55    3679806.45       57.38887                       471733.12
3679806.45       59.60037
         471681.70    3679813.12       43.73382                       471690.27
3679813.12       45.54539
         471698.84    3679813.12       47.34150                       471707.41
3679813.12       49.06150
         471715.98    3679813.12       50.69401                       471724.55
3679813.12       52.37279
         471698.84    3679819.79       43.70308                       471707.41
3679819.79       45.28233
         471715.98    3679819.79       46.62131                       471724.55
3679819.79       47.94939
         471741.69    3679819.79       50.33956                       471715.98
3679826.46       42.99208
         471724.55    3679826.46       44.03912                       471741.69
3679826.46       45.79427
         471741.69    3679833.13       41.71773                       471610.88
3679704.21      108.98736
         471609.62    3679708.72       99.03408                       471607.10
3679714.13       88.08562
         471605.83    3679718.27       81.85859                       471603.85
3679722.78       75.36212
         471599.70    3679732.16       64.37321                       471638.47
3679716.65      127.77568
         471636.67    3679721.70      113.51476                       471631.26
3679732.34       89.97798
         471640.27    3679708.72      147.68508                       471612.14
3679699.52      113.50832
         471658.30    3679716.83      153.46186                       471655.42
3679721.34      140.79544
         471653.80    3679725.13      127.88064                       471652.17
3679731.08      112.55244
         471648.93    3679739.37       95.17790                       471680.48
3679737.21      128.16438
         471682.65    3679731.44      147.10753                       471683.55
3679727.47      158.70564
         471694.73    3679738.29      140.19932                       471696.17
3679734.50      154.21594
         471707.89    3679737.03      160.15010                       471736.02
3679749.11      152.51417
         471760.72    3679792.02       90.33436                       471752.37
3679789.67       90.54334
         471749.27    3679806.96       63.00471                       471743.99
3679814.30       54.98568
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471673.13	3679746.42	326.52568	(21122316)	471681.70	3679746.42	327.52773	(21122316)
471690.27	3679746.42	324.20446	(21122316)	471698.84	3679746.42	332.86269	(20070306)
471707.41	3679746.42	355.44801	(20070306)	471715.98	3679746.42	380.72549	(20070306)
471733.12	3679746.42	443.95605	(20070306)	471741.69	3679746.42	449.65514	(20070306)
471621.71	3679753.09	276.25699	(21122316)	471681.70	3679753.09	312.48191	(21122316)
471690.27	3679753.09	308.57827	(21122316)	471698.84	3679753.09	303.01603	(19013018)
471707.41	3679753.09	316.07949	(19013018)	471724.55	3679753.09	362.00774	(20101417)
471733.12	3679753.09	393.17615	(20101417)	471741.69	3679753.09	427.93153	(20070306)
471621.71	3679759.76	265.51270	(21122316)	471630.28	3679759.76	274.08718	(21122316)
471638.85	3679759.76	280.96711	(21122316)	471698.84	3679759.76	284.89088	(19013018)
471707.41	3679759.76	297.65569	(19013018)	471724.55	3679759.76	325.26181	(20101417)
471733.12	3679759.76	356.65495	(20101417)	471741.69	3679759.76	386.38282	(20101417)

```
        471613.14   3679766.43      244.34315  (21122316)               471621.71
3679766.43      255.08090  (21122316)
        471630.28   3679766.43      263.05224  (21122316)               471638.85
3679766.43      269.44541  (21122316)
        471647.42   3679766.43      274.97998  (21122316)               471655.99
3679766.43      279.63684  (21122316)
        471724.55   3679766.43      301.72943  (20012318)               471733.12
3679766.43      321.88981  (20101417)
        471741.69   3679766.43      351.01771  (20101417)               471613.14
3679773.10      233.32444  (21122316)
        471621.71   3679773.10      244.09650  (21122316)               471630.28
3679773.10      252.50584  (21122316)
        471638.85   3679773.10      258.51421  (21122316)               471647.42
3679773.10      263.68567  (21122316)
        471655.99   3679773.10      267.78959  (21122316)               471664.56
3679773.10      270.13064  (21122316)
        471673.13   3679773.10      270.53077  (21122316)               471724.55
3679773.10      285.08326  (20012318)
        471733.12   3679773.10      294.19623  (20012318)               471741.69
3679773.10      318.47722  (20101417)
        471613.14   3679779.77      222.27300  (21122316)               471621.71
3679779.77      233.43523  (21122316)
        471630.28   3679779.77      242.43755  (21122316)               471638.85
3679779.77      248.00646  (21122316)
        471647.42   3679779.77      252.68825  (21122316)               471655.99
3679779.77      256.25825  (21122316)
        471664.56   3679779.77      257.86127  (21122316)               471673.13
3679779.77      257.43524  (21122316)
        471681.70   3679779.77      254.46473  (21122316)               471690.27
3679779.77      248.45277  (21122316)
        471741.69   3679779.77      286.78859  (20101417)               471613.14
3679786.44      211.70872  (21122316)
        471621.71   3679786.44      223.30195  (21122316)               471630.28
3679786.44      232.73259  (21122316)
        471638.85   3679786.44      237.84799  (21122316)               471647.42
3679786.44      241.98743  (21122316)
        471655.99   3679786.44      244.95889  (21122316)               471664.56
3679786.44      245.77901  (21122316)
        471673.13   3679786.44      244.58197  (21122316)               471681.70
3679786.44      240.92595  (21122316)
        471690.27   3679786.44      234.42990  (21122316)               471698.84
3679786.44      235.80562  (19010818)
        471707.41   3679786.44      240.43084  (19010818)               471621.71
3679793.11      213.69396  (21122316)
        471630.28   3679793.11      223.42996  (21122316)               471638.85
3679793.11      228.05305  (21122316)
        471647.42   3679793.11      231.64891  (21122316)               471655.99
3679793.11      233.94741  (21122316)
        471664.56   3679793.11      234.02650  (21122316)               471673.13
3679793.11      232.08342  (21122316)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471647.42	3679799.78	220.12825	(21122316)	471655.99	3679799.78	221.81504	(21122316)
471664.56	3679799.78	221.51793	(21122316)	471673.13	3679799.78	219.27410	(21122316)
471681.70	3679799.78	214.72563	(21122316)	471690.27	3679799.78	212.06769	(21020319)
471698.84	3679799.78	215.65165	(19010818)	471707.41	3679799.78	219.86092	(19010818)
471715.98	3679799.78	222.17192	(19010818)	471724.55	3679799.78	229.26734	(21120118)
471733.12	3679799.78	236.67593	(21120118)	471664.56	3679806.45	204.49340	(21122316)
471673.13	3679806.45	203.13314	(21122316)	471681.70	3679806.45	199.62815	(21122316)
471690.27	3679806.45	202.83897	(21020319)	471698.84			

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3679806.45      206.24429  (19010818)
        471707.41   3679806.45      210.56195  (19010818)               471715.98
3679806.45      212.98112  (19010818)
        471724.55   3679806.45      217.94096  (21120118)               471733.12
3679806.45      225.57862  (21120118)
        471681.70   3679813.12      189.35445  (19120320)               471690.27
3679813.12      193.75956  (21020319)
        471698.84   3679813.12      197.28483  (19010818)               471707.41
3679813.12      201.90756  (19010818)
        471715.98   3679813.12      204.51183  (19010818)               471724.55
3679813.12      208.51267  (20122119)
        471698.84   3679819.79      188.81503  (19010818)               471707.41
3679819.79      193.87029  (19010818)
        471715.98   3679819.79      196.67093  (19010818)               471724.55
3679819.79      199.80335  (20122119)
        471741.69   3679819.79      213.74382  (21120118)               471715.98
3679826.46      189.36109  (19010818)
        471724.55   3679826.46      191.92512  (19010818)               471741.69
3679826.46      204.25191  (20122119)
        471741.69   3679833.13      195.65805  (20122119)               471610.88
3679704.21      342.15985  (21011420)
        471609.62   3679708.72      323.14721  (19011806)               471607.10
3679714.13      303.43149  (19011806)
        471605.83   3679718.27      290.06514  (19011806)               471603.85
3679722.78      276.06029  (21011624)
        471599.70   3679732.16      252.76294  (20011919)               471638.47
3679716.65      359.31681  (20070306)
        471636.67   3679721.70      347.70647  (21122316)               471631.26
3679732.34      323.52614  (21122316)
        471640.27   3679708.72      419.25471  (20070306)               471612.14
3679699.52      351.11686  (21011420)
        471658.30   3679716.83      430.59473  (20070306)               471655.42
3679721.34      395.83267  (20070306)
        471653.80   3679725.13      355.64471  (21122316)               471652.17
3679731.08      344.03013  (21122316)
        471648.93   3679739.37      326.29072  (21122316)               471680.48
3679737.21      350.42241  (20070306)
        471682.65   3679731.44      409.61082  (20070306)               471683.55
3679727.47      443.03794  (20070306)
        471694.73   3679738.29      386.40786  (20070306)               471696.17
3679734.50      430.26019  (20070306)
        471707.89   3679737.03      448.21968  (20070306)               471736.02
3679749.11      430.51278  (20070306)
        471760.72   3679792.02      330.40192  (19042318)               471752.37
3679789.67      295.43133  (20012318)
        471749.27   3679806.96      245.16635  (20012318)               471743.99
3679814.30      224.75233  (21120118)
 *** AERMOD - VERSION 22112  ***   *** C:\Users\enuno\OneDrive -
Dudek\Desktop\OP_Onsite\Oceanside-Pacifica ***        12/23/22
 *** AERMET - VERSION  22112 ***   ***
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*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	160.15010 AT (471707.89, 3679737.03, 30.38, 42.69, 0.00)	DC	
	2ND HIGHEST VALUE IS	158.92239 AT (471741.69, 3679746.42, 30.86, 39.86, 0.00)	DC	
	3RD HIGHEST VALUE IS	158.70564 AT (471683.55, 3679727.47, 30.16, 49.92, 0.00)	DC	
	4TH HIGHEST VALUE IS	157.53906 AT (471733.12, 3679746.42, 30.94, 39.86, 0.00)	DC	
	5TH HIGHEST VALUE IS	154.21594 AT (471696.17, 3679734.50, 30.29, 49.92, 0.00)	DC	
	6TH HIGHEST VALUE IS	153.46186 AT (471658.30, 3679716.83, 30.23, 49.92, 0.00)	DC	
	7TH HIGHEST VALUE IS	152.51417 AT (471736.02, 3679749.11, 30.92, 39.86, 0.00)	DC	
	8TH HIGHEST VALUE IS	149.42318 AT (471741.69, 3679753.09, 30.90, 39.86, 0.00)	DC	
	9TH HIGHEST VALUE IS	147.68508 AT (471640.27, 3679708.72, 30.29, 49.92, 0.00)	DC	
	10TH HIGHEST VALUE IS	147.10753 AT (471682.65, 3679731.44, 30.22, 49.92, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH VALUE IS	449.65514	ON 20070306: AT (471741.69, 3679746.42, 30.86, 39.86, 0.00)	DC	

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1272 Informational Message(s)

 A Total of   26304 Hours Were Processed

 A Total of   701 Calm Hours Identified

 A Total of   571 Missing Hours Identified (2.17 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

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   ********   WARNING MESSAGES   ********
ME W186     650       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     650       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
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*HARP - HRACalc v22118 2/8/2023 5:36:35 PM - Cancer Risk - Input File: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Oceanside_Pacifica\OCEANSIDE_PACIFICA_CONST_ONSITE_UNMIT\hra\OCEANSIDE_PACIFICA_ONSITE_CONST_UNMITHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_R	EGG_RISK
137	ALL		471707.9	3679737	2.57E-06	0.66YrCanc	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		471741.7	3679746	2.55E-06	0.66YrCanc	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL		471683.6	3679727	2.55E-06	0.66YrCanc	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		471733.1	3679746	2.53E-06	0.66YrCanc	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL		471696.2	3679735	2.48E-06	0.66YrCanc	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		471658.3	3679717	2.47E-06	0.66YrCanc	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL		471736	3679749	2.45E-06	0.66YrCanc	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		471741.7	3679753	2.40E-06	0.66YrCanc	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL		471640.3	3679709	2.37E-06	0.66YrCanc	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL		471682.7	3679731	2.36E-06	0.66YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL		471655.4	3679721	2.26E-06	0.66YrCanc	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL		471694.7	3679738	2.25E-06	0.66YrCanc	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		471733.1	3679753	2.23E-06	0.66YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		471716	3679746	2.23E-06	0.66YrCanc	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		471741.7	3679760	2.14E-06	0.66YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		471707.4	3679746	2.10E-06	0.66YrCanc	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		471724.6	3679753	2.09E-06	0.66YrCanc	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL		471680.5	3679737	2.06E-06	0.66YrCanc	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL		471653.8	3679725	2.05E-06	0.66YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL		471638.5	3679717	2.05E-06	0.66YrCanc	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		471733.1	3679760	2.02E-06	0.66YrCanc	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		471698.8	3679746	1.98E-06	0.66YrCanc	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		471741.7	3679766	1.91E-06	0.66YrCanc	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		471724.6	3679760	1.88E-06	0.66YrCanc	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		471690.3	3679746	1.87E-06	0.66YrCanc	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		471707.4	3679753	1.86E-06	0.66YrCanc	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		471733.1	3679766	1.83E-06	0.66YrCanc	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL		471636.7	3679722	1.82E-06	0.66YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		471612.1	3679700	1.82E-06	0.66YrCanc	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL		471652.2	3679731	1.81E-06	0.66YrCanc	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		471741.7	3679773	1.78E-06	0.66YrCanc	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		471698.8	3679753	1.76E-06	0.66YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		471681.7	3679746	1.76E-06	0.66YrCanc	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL		471610.9	3679704	1.75E-06	0.66YrCanc	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		471724.6	3679766	1.69E-06	0.66YrCanc	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		471707.4	3679760	1.67E-06	0.66YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		471690.3	3679753	1.66E-06	0.66YrCanc	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		471733.1	3679773	1.65E-06	0.66YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1	ALL		471673.1	3679746	1.65E-06	0.66YrCanc	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL		471609.6	3679709	1.59E-06	0.66YrCanc	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		471698.8	3679760	1.58E-06	0.66YrCanc	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		471681.7	3679753	1.57E-06	0.66YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		471741.7	3679780	1.57E-06	0.66YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL		471648.9	3679739	1.53E-06	0.66YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		471724.6	3679773	1.53E-06	0.66YrCanc	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL		471752.4	3679790	1.45E-06	0.66YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

139	ALL	471760.7	3679792	1.45E-06	0.66YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	471631.3	3679732	1.45E-06	0.66YrCanc	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	471607.1	3679714	1.42E-06	0.66YrCanc	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	471605.8	3679718	1.32E-06	0.66YrCanc	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	471603.9	3679723	1.21E-06	0.66YrCanc	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	471690.3	3679780	1.12E-06	0.66YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	471724.6	3679793	1.12E-06	0.66YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	471707.4	3679786	1.12E-06	0.66YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	471673.1	3679773	1.11E-06	0.66YrCanc	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	471656	3679766	1.10E-06	0.66YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	471681.7	3679780	1.07E-06	0.66YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	471698.8	3679786	1.07E-06	0.66YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	471716	3679793	1.07E-06	0.66YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	471638.9	3679760	1.06E-06	0.66YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	471664.6	3679773	1.06E-06	0.66YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	471733.1	3679800	1.06E-06	0.66YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	471647.4	3679766	1.04E-06	0.66YrCanc	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	471599.7	3679732	1.03E-06	0.66YrCanc	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	471690.3	3679786	1.02E-06	0.66YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	471673.1	3679780	1.02E-06	0.66YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	471707.4	3679793	1.02E-06	0.66YrCanc	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	471724.6	3679800	1.01E-06	0.66YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	471749.3	3679807	1.01E-06	0.66YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	471656	3679773	1.01E-06	0.66YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	471621.7	3679753	1.01E-06	0.66YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	471630.3	3679760	9.96E-07	0.66YrCanc	9.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	471681.7	3679786	9.81E-07	0.66YrCanc	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	471638.9	3679766	9.78E-07	0.66YrCanc	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	471698.8	3679793	9.78E-07	0.66YrCanc	9.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	471664.6	3679780	9.75E-07	0.66YrCanc	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	471716	3679800	9.71E-07	0.66YrCanc	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	471733.1	3679806	9.57E-07	0.66YrCanc	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	471647.4	3679773	9.56E-07	0.66YrCanc	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	471673.1	3679786	9.39E-07	0.66YrCanc	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	471690.3	3679793	9.39E-07	0.66YrCanc	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	471707.4	3679800	9.33E-07	0.66YrCanc	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	471621.7	3679760	9.32E-07	0.66YrCanc	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	471656	3679780	9.29E-07	0.66YrCanc	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	471724.6	3679806	9.22E-07	0.66YrCanc	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	471630.3	3679766	9.21E-07	0.66YrCanc	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	471638.9	3679773	9.05E-07	0.66YrCanc	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	471681.7	3679793	9.02E-07	0.66YrCanc	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	471664.6	3679786	8.99E-07	0.66YrCanc	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	471698.8	3679800	8.98E-07	0.66YrCanc	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	471716	3679806	8.88E-07	0.66YrCanc	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	471647.4	3679780	8.84E-07	0.66YrCanc	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	471744	3679814	8.83E-07	0.66YrCanc	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	471673.1	3679793	8.66E-07	0.66YrCanc	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	471621.7	3679766	8.65E-07	0.66YrCanc	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

86	ALL	471690.3	3679800	8.64E-07	0.66YrCanc	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	471656	3679786	8.59E-07	0.66YrCanc	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	471707.4	3679806	8.56E-07	0.66YrCanc	8.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	471630.3	3679773	8.55E-07	0.66YrCanc	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	471724.6	3679813	8.41E-07	0.66YrCanc	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	471638.9	3679780	8.39E-07	0.66YrCanc	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	471681.7	3679800	8.32E-07	0.66YrCanc	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	471664.6	3679793	8.31E-07	0.66YrCanc	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	471698.8	3679806	8.26E-07	0.66YrCanc	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	471647.4	3679786	8.19E-07	0.66YrCanc	8.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	471716	3679813	8.14E-07	0.66YrCanc	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	471613.1	3679766	8.12E-07	0.66YrCanc	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	471741.7	3679820	8.09E-07	0.66YrCanc	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	471621.7	3679773	8.04E-07	0.66YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	471673.1	3679800	8.01E-07	0.66YrCanc	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	471656	3679793	7.96E-07	0.66YrCanc	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	471690.3	3679806	7.95E-07	0.66YrCanc	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	471630.3	3679780	7.95E-07	0.66YrCanc	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	471707.4	3679813	7.88E-07	0.66YrCanc	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	471638.9	3679786	7.80E-07	0.66YrCanc	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	471724.6	3679820	7.70E-07	0.66YrCanc	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	471664.6	3679800	7.70E-07	0.66YrCanc	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	471681.7	3679806	7.65E-07	0.66YrCanc	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	471647.4	3679793	7.62E-07	0.66YrCanc	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	471698.8	3679813	7.61E-07	0.66YrCanc	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	471613.1	3679773	7.55E-07	0.66YrCanc	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	471621.7	3679780	7.49E-07	0.66YrCanc	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	471716	3679820	7.49E-07	0.66YrCanc	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	471630.3	3679786	7.41E-07	0.66YrCanc	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	471656	3679800	7.39E-07	0.66YrCanc	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	471741.7	3679826	7.36E-07	0.66YrCanc	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	471673.1	3679806	7.35E-07	0.66YrCanc	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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108	ALL	471707.4	3679820	7.27E-07	0.66YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	471638.9	3679793	7.27E-07	0.66YrCanc	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	471647.4	3679800	7.08E-07	0.66YrCanc	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	471724.6	3679826	7.07E-07	0.66YrCanc	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	471664.6	3679806	7.06E-07	0.66YrCanc	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	471613.1	3679780	7.03E-07	0.66YrCanc	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	471681.7	3679813	7.03E-07	0.66YrCanc	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	471698.8	3679820	7.02E-07	0.66YrCanc	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	471621.7	3679786	6.99E-07	0.66YrCanc	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	471630.3	3679793	6.93E-07	0.66YrCanc	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	471716	3679826	6.91E-07	0.66YrCanc	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	471741.7	3679833	6.70E-07	0.66YrCanc	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	471613.1	3679786	6.55E-07	0.66YrCanc	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	471621.7	3679793	6.53E-07	0.66YrCanc	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Appendix D
Biological Technical Report

DRAFT

Biological Technical Report
Pacifica Residential Project

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CNPS	California Native Plant Society
CRPR	California Rare Plant Rank
ESA	federal Endangered Species Act
MBTA	Migratory Bird Treaty Act
MHCP	Multiple Habitat Conservation Program
OHWM	ordinary high water mark
RWQCB	Regional Water Quality Control Board
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service

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Summary of Findings

This biological technical report was prepared to provide the existing biological conditions of the project site and evaluation of the proposed Pacifica Residential Project. The project site refers to the approximately 14.55–acre project site analyzed in this report. The Pacifica Residential Project is located in the City of Oceanside in San Diego County. The North County MHCP is used as a guidance document for development projects in the City of Oceanside but has yet to be approved by the Oceanside City Council.

Dudek conducted a biological reconnaissance survey, general habitat assessment, and vegetation mapping in 2021. The site was visited again in 2022 to review conditions and ensure consistency. This report documents the results of Dudek's fieldwork and provides an analysis of the biological impacts related to the proposed project.

Based on species composition and general physiognomy, Dudek mapped one vegetation community and one land cover within the project site: disturbed habitat (9.28 acres) and urban/developed (5.27 acres). The combined project area is approximately 14.55 acres. Disturbed habitat makes up the majority of the site including the slopes around the perimeter as well as the majority of the western side. Most of the remainder of the project site consists of developed land cover, as it consists of the old footprint of Pacifica Elementary School. No jurisdictional aquatic features were documented within the project site.

Historically, the site used to be the location of the old Pacifica Elementary School, which closed down in the early 2000s and since then the site has been virtually vacant. Residential development is present to the north, south, and east of the site. Little Libby Lake is located southwest of the site within Libby Lake Park, beyond which there is more residential development.

Due to lack of suitable habitat and vegetation on the project site, no focused surveys for any sensitive or special-status species were conducted. No critical habitat for any special-status species is designated on the project site. Additionally, no special-status plants or wildlife were observed on the project site, nor are expected to occur.

The proposed project would result in permanent impacts to 4.96 acres of disturbed habitat and 5.21 acres of developed landcover (10.17 acres total) associated with the grading and development of the proposed project.

There are no significant impacts anticipated from the development of the proposed project, and only minor impacts would occur. Therefore, minimal mitigation would be required.

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1 Introduction

1.1 Purpose of the Report

This biological technical report summarizes the methods and results of biological assessments conducted for the Pacifica Residential Project (proposed project) site to describe the existing conditions of the biological resources on the project site including vegetation, flora, wildlife, jurisdictional aquatic resources, wildlife movement, and to assess the potential for special-status species to occur. This biological technical report presents the evaluation of the biological significance of these resources and potential project impacts, and recommends measures to avoid, minimize, or mitigate potential impacts where feasible to less-than-significant levels.

1.2 Location and Project Description

1.2.1 Location

The approximately 14.55-acre project site is located west of 4991 Macario Drive and bound to the north by single-family homes fronting Claire Drive; to the south by single-family homes fronting North Redondo Drive; Roja Drive to the east, and Marblehead Bay Drive and undeveloped land to the south/southwest. The site is approximately 1 mile northwest of Highway 76, and 0.5 miles from the San Luis Rey River and the San Luis Rey Transit Center in a largely single-family residential neighborhood in the City of Oceanside, California. It is completely surrounded by residential homes, except for the south/southwest corner, where the subject property connects to a small parcel of undeveloped land owned by the City of Oceanside, which connects to Little Libby Lake and Libby Lake Park (Figure 1, Regional Location and Vicinity).

The assessor's parcel numbers assigned to the property are 122-190-19-00, 122-190-22-00 and 157-070-42-00. The project site is located on the U.S. Geological Survey 7.5-minue Morro Hill quadrangle map on Sections 3 and 4, within Township 10 and 11 South, and Range 4 West. The approximate centroid of the project site is 33°15'22.3"N 117°18'14.9"W, and onsite elevation ranges from 80-120 feet amsl (Figure 1, Regional Location and Vicinity).

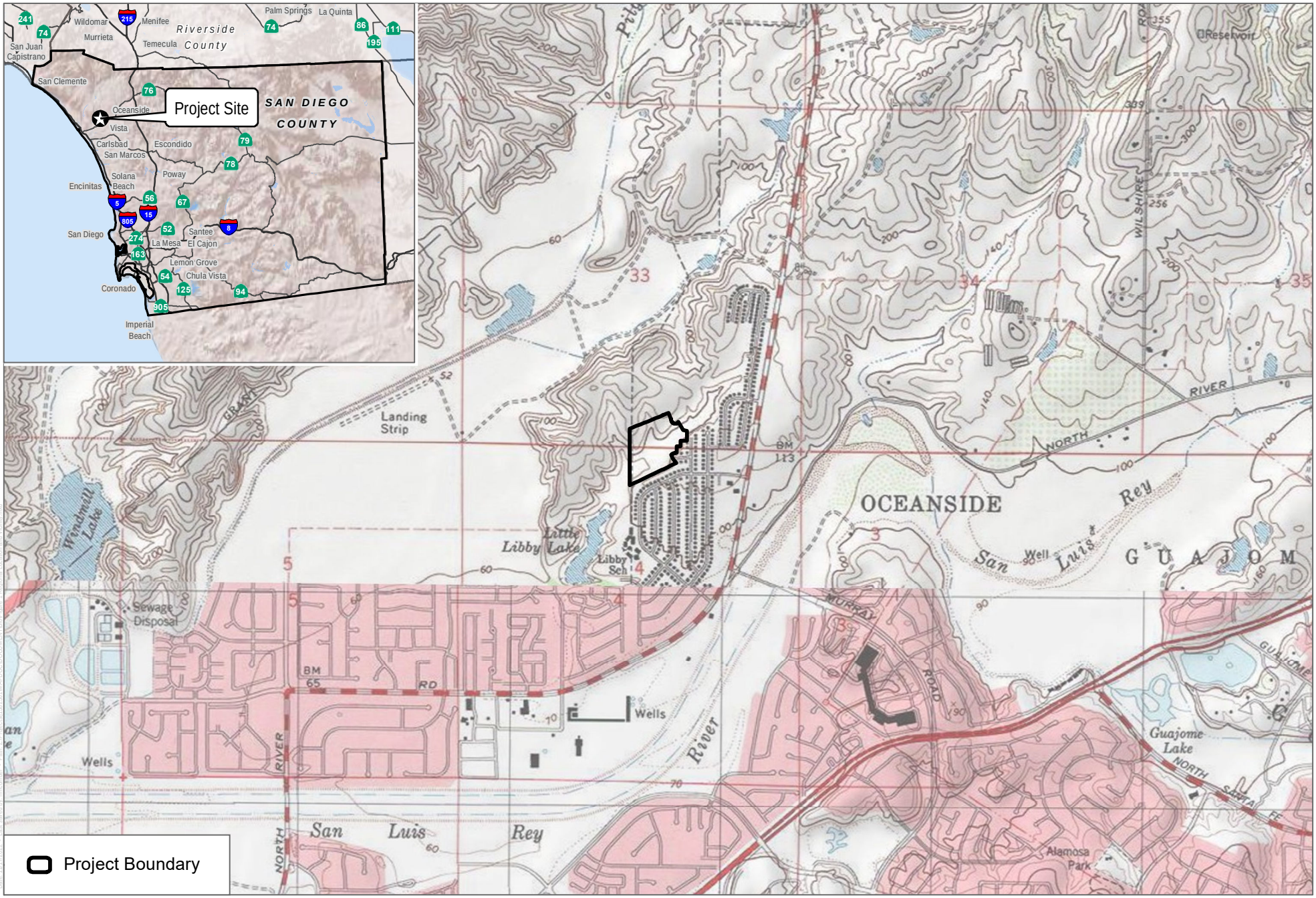
1.2.2 Project Description

The proposed project consists of development of 164 three-story attached townhomes. Of the approximately 14.55-acre site, 10.17 acres would be developed. The approximately 4 acres that would not be developed consist of 20 to 30-foot-tall slopes along the southern, western, and northern perimeters of the project site. Townhomes would range in size from approximately 1,200 square feet to 1,800 square feet with two and three bedrooms and an attached two-car garage. Each townhome would include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 53,700 square feet, would be designed with amenities such as tot lots, an off-leash dog park, pickle ball courts, bocce ball areas, barbecue areas, and a space for a variety of outdoor games.

Site access would be provided at the corner of Monica Circle and Macario Drive and emergency access would be provided via a new private driveway from Malaga Drive.

The proposed project would establish a Planned Development District intended to provide zoning, use regulations, and development regulations for future development of the site. A Planned Development Plan has been prepared in accordance with the City of Oceanside Zoning Ordinance – Article 17. The Planned Development Plan provides direction for the assignment of land uses, development intensities, development regulation, as well as design guidelines that will provide a framework for the specific development of the site.

The project would include a General Plan Amendment to revise the land use designation from Civic Institution (CI) to Medium Density Residential-B (MDB-R). A Zone Amendment is also proposed to revise the current zoning from Civic/Public (PS) to Planned Development (PD), with the Pacifica Planned Development Plan service as the regulating document.



SOURCE: USGS 7.5-Minute Series Morro Hill Quadrangle

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Regional Location and Vicinity

Pacifica Residential Project

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2 Regulatory Context

2.1 Federal

2.1.1 Federal Endangered Species Act

The federal Endangered Species Act (ESA) of 1973 (16 USC 1531 et seq.), as amended, is administered by the U.S. Fish and Wildlife Service (USFWS) for most plant and animal species, and by the National Oceanic and Atmospheric Administration National Marine Fisheries Service for certain marine species. This legislation is intended to provide a means to conserve the ecosystems upon which endangered and threatened species depend and provide programs for the conservation of those species, thus preventing extinction of plants and wildlife. The ESA defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range." A threatened species is defined as "any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range." Under the ESA, it is unlawful to take any listed species, and "take" is defined as, "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct."

The ESA allows for the issuance of incidental take permits for listed species under Section 7, which is generally available for projects that also require other federal agency permits or other approvals, and under Section 10, which provides for the approval of habitat conservation plans on private property without any other federal agency involvement. Upon development of a habitat conservation plan, USFWS can issue incidental take permits for listed species.

2.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) was originally passed in 1918 as four bilateral treaties, or conventions, for the protection of a shared migratory bird resource. The primary motivation for the international negotiations was to stop the "indiscriminate slaughter" of migratory birds by market hunters and others. Each of the treaties protects selected species of birds and provides for closed and open seasons for hunting game birds. The MBTA protects over 800 species of birds and prohibits the take of any migratory bird or any part, nest, or eggs of any such bird. Under the MBTA, "take" is defined as pursuing, hunting, shooting, capturing, collecting, or killing, or attempting to do so (16 USC 703 et seq.). In December 2017, Department of the Interior Principal Deputy Solicitor Jorjani issued a memorandum (M-37050) that interprets the MBTA to prohibit only intentional take. Unintentional or accidental take is not prohibited (DOI 2017). Additionally, Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds, requires that any project with federal involvement address impacts of federal actions on migratory birds with the purpose of promoting conservation of migratory bird populations (66 FR 3853–3856). The Executive Order requires federal agencies to work with USFWS to develop a memorandum of understanding. USFWS reviews actions that might affect these species.

Two species of eagles that are native to the United States, the bald eagle (*Haliaeetus leucocephalus*) and golden eagle (*Aquila chrysaetos*), were granted additional protection within the United States under the Bald and Golden Eagle Protection Act (16 USC 668–668d) to prevent the species from becoming extinct.

2.1.3 Clean Water Act

Pursuant to Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers (USACE) regulates the discharge of dredged and/or fill material into "waters of the United States." On April 21, 2020, the Navigable Waters Protection Rule was adopted and became effective on June 22, 2020. The notable changes from the previous definition of waters of the United States is that there is a clearer definition of which waters are and are not jurisdictional, there is a new definition of "adjacency," ephemeral waters are no longer considered waters of the United States, and ditches are explicitly excluded as waters of the United States. The term "adjacent wetlands" (a subset of waters of the United States) is defined in Title 33 of the Code of Federal Regulations (CFR), Section 328.3(c)(16) (33 CFR 328.3[c][16]), as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." In the absence of wetlands, the limits of USACE jurisdiction in non-tidal waters, such as intermittent streams, extend to the "ordinary high water mark" (OHWM) which is defined in 33 CFR 328.3(c)(7) as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

2.2 State

2.2.1 California Endangered Species Act

The California Department of Fish and Wildlife (CDFW) administers the California Endangered Species Act (CESA), which prohibits the "take" of plant and animal species designated by the California Fish and Game Commission as endangered or threatened in the state of California. Under CESA Section 86, take is defined as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." CESA Section 2053 stipulates that state agencies may not approve projects that will "jeopardize the continued existence of any endangered species or threatened species, or result in the destruction or adverse modification of habitat essential to the continued existence of those species, if there are reasonable and prudent alternatives available consistent with conserving the species or its habitat which would prevent jeopardy."

CESA defines an endangered species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease." CESA defines a threatened species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any animal determined by the [California Fish and Game] Commission as rare on or before January 1, 1985, is a threatened species." A candidate species is defined as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the Commission has published a notice of proposed regulation to add the species to either list." CESA does not list invertebrate species.

CESA authorizes the taking of threatened, endangered, or candidate species if take is incidental to otherwise lawful activity and if specific criteria are met. These provisions also require CDFW to coordinate consultations with USFWS for actions involving federally listed species that are also state-listed species. In certain circumstances, CESA allows CDFW to adopt a CESA incidental take authorization as satisfactory for California Environmental Quality Act (CEQA) purposes based on finding that the federal permit adequately protects the species and is consistent with state law.

A CESA permit may not authorize the take of "fully protected" species that are protected in other provisions of the California Fish and Game Code, discussed further below.

2.2.2 California Fish and Game Code

Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish) of the California Fish and Game Code provide that designated fully protected species may not be taken or possessed without a permit. Incidental take of these species is not authorized by law.

Pursuant to Section 3503.5 of the California Fish and Game Code, it is unlawful to take, possess, or destroy any birds of prey; or to take, possess, or destroy any nest or eggs of such birds. Birds of prey refer to species in the orders Falconiformes and Strigiformes.

Nests of all other birds (except English sparrow [*Passer domesticus*] and European starling [*Sturnus vulgaris*]) are protected under Sections 3503 and 3513 of the California Fish and Game Code.

Pursuant to Section 1602 of the California Fish and Game Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or wildlife. Diversion, obstruction, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or wildlife requires authorization from CDFW by means of entering into an agreement pursuant to Section 1602 of the California Fish and Game Code.

2.2.3 Porter–Cologne Water Quality Control Act

The Porter–Cologne Water Quality Control Act (Porter–Cologne Act) protects water quality and the beneficial uses of water. It applies to surface water and groundwater. Under this law, the State Water Resources Control Board develops statewide water quality plans, and the Regional Water Quality Control Boards (RWQCBs) develop regional basin plans that identify beneficial uses, water quality objectives, and implementation plans. The RWQCBs have the primary responsibility to implement the provisions of statewide plans and basin plans. Waters regulated under the Porter–Cologne Act include isolated waters that are not regulated by USACE. RWQCBs regulate discharging waste, or proposing to discharge waste, within any region that could affect a "water of the state" (California Water Code, Section 13260[a]). Waters of the state are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code, Section 13050[e]). Developments with impacts on jurisdictional waters must demonstrate compliance with the goals of the Porter–Cologne Act by developing stormwater pollution prevention plans, standard urban stormwater mitigation plans, and other measures to obtain a Clean Water Act Section 401 certification. If a Clean Water Act Section 404 permit is not required for the project, the RWQCB may still require a permit (i.e., Waste Discharge Requirement) for impacts to waters of the state under the Porter–Cologne Act.

2.2.4 California Environmental Quality Act

CEQA (California Public Resources Code, Section 21000 et seq.) and the CEQA Guidelines (14 CCR 15000 et seq.) require identification of a project's potentially significant impacts on biological resources and feasible mitigation measures and alternatives that could avoid or reduce significant impacts. CEQA Guidelines Section 15380(b)(1) defines endangered animals or plants as species or subspecies whose "survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors" (14 CCR 15000 et seq.). A rare animal or plant is defined in CEQA Guidelines Section 15380(b)(2) as a species that, although not currently threatened with extinction, exists "in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens; or … [t]he species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered 'threatened' as that term is used in the federal Endangered Species Act." Additionally, an animal or plant may be presumed to be endangered, rare, or threatened if it meets the criteria for listing, as defined further in CEQA Guidelines Section 15380(c). CEQA also requires identification of a project's potentially significant impacts on riparian habitats (such as wetlands, bays, estuaries, and marshes) and other sensitive natural communities, including habitats occupied by endangered, rare, and threatened species.

In Title 14 of the California Code of Regulations (CCR), Section 1.72 (14 CCR, Section 1.72), CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation."

In 14 CCR 1.56, CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." Diversion, obstruction, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or wildlife requires authorization from CDFW by means of entering into an agreement pursuant to Section 1602 of the California Fish and Game Code.

CDFW recognizes that all plants with California Rare Plant Rank (CRPR) 1A, 1B, 2, and some ranked 3, of the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants in California (CNPS 2022) may meet the criteria for listing as threatened or endangered and should be considered under CEQA (CDFW 2022a; CDFW 2022d). Some of the CRPR 3 and 4 plants meet the criteria for determination as "rare" or "endangered" as defined in Section 1901, Chapter 10 (Native Plant Protection Act), Division 2, of the California Fish and Game Code, as well as Section 2062 and Section 2067, Chapter 1.5 (CESA), Division 3. Therefore, consideration under CEQA for these CRPR 3 and 4 species is strongly recommended by CNPS (CNPS 2022).

For purposes of this report, animals considered "rare" under CEQA include endangered or threatened species, Birds of Conservation Concern (USFWS 2008), California Species of Special Concern (CDFW 2022a), and fully protected species.

Section IV, Appendix G (Environmental Checklist Form) of the CEQA Guidelines (14 CCR 15000 et seq.) requires an evaluation of impacts to "any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game [now CDFW] or the U.S. Fish and Wildlife Service."

The criteria used to determine the significance of impacts to biological resources under CEQA are provided in Chapter 6, Anticipated Project Impacts and Analysis of Significance.

2.3 Local

2.3.1 North County Multiple Habitat Conservation Program

The North County Multiple Habitat Conservation Program (MHCP) is a long-term regional conservation plan established to protect sensitive species and habitats in northern San Diego County. The MHCP is divided into seven Subarea Plans—one for each jurisdiction within the MHCP—that are permitted and implemented separately from one another. The City of Oceanside Subarea Plan (Subarea Plan) has been prepared and is used as a guidance document for development projects in the City of Oceanside but has not been approved or permitted (City of Oceanside 2010).

The small area designated as conserved lands west and southwest of the project site encompasses open space, and a small portion of Libby Lake and Libby Lake Park (Figure 2, City of Oceanside Preserve Planning Zones). These lands are conserved for the purpose of protecting the open space and natural habitats including lands inside and outside of NCCP (Natural Community Conservation Plan) areas. Conserved lands are those lands that are legally conserved to protect natural habitats, species, and open space, contribute to the existing and planned regional habitat preserve system, and managed to protect the open space or natural resources in the future (SANDAG 2022).

2.3.2 City of Oceanside Subarea Plan

The overall goal of the Oceanside Subarea Plan is to contribute to regional biodiversity and the viability of rare, unique, or sensitive biological resources throughout the City of Oceanside and the larger region while allowing public and private development to occur consistent with the City's General Plan and Capital Improvement Program (City of Oceanside 2010). In addition, the plan calls for the conservation of 90% to 100% of all hardline conservation areas; conservation of a minimum of 2,511 acres of existing native habitats as a biological preserve in the City of Oceanside; conservation of a minimum of 95% of rare and narrow endemic species populations within the preserve and a minimum of 80% throughout the City as a whole; and restoration of a minimum of 164 acres of coastal sage scrub habitat within the City of Oceanside, of which 145 acres will be within a wildlife corridor planning zone. Parcels within the wildlife corridor planning zone contribute to the north–south regional gnatcatcher steppingstone corridor. Although the Oceanside Subarea Plan is used as a guidance document for development projects in the City of Oceanside, the Subarea Plan has yet to be approved by the Oceanside City Council, and incidental take authority has therefore not been transferred to the City of Oceanside from USFWS and CDFW.

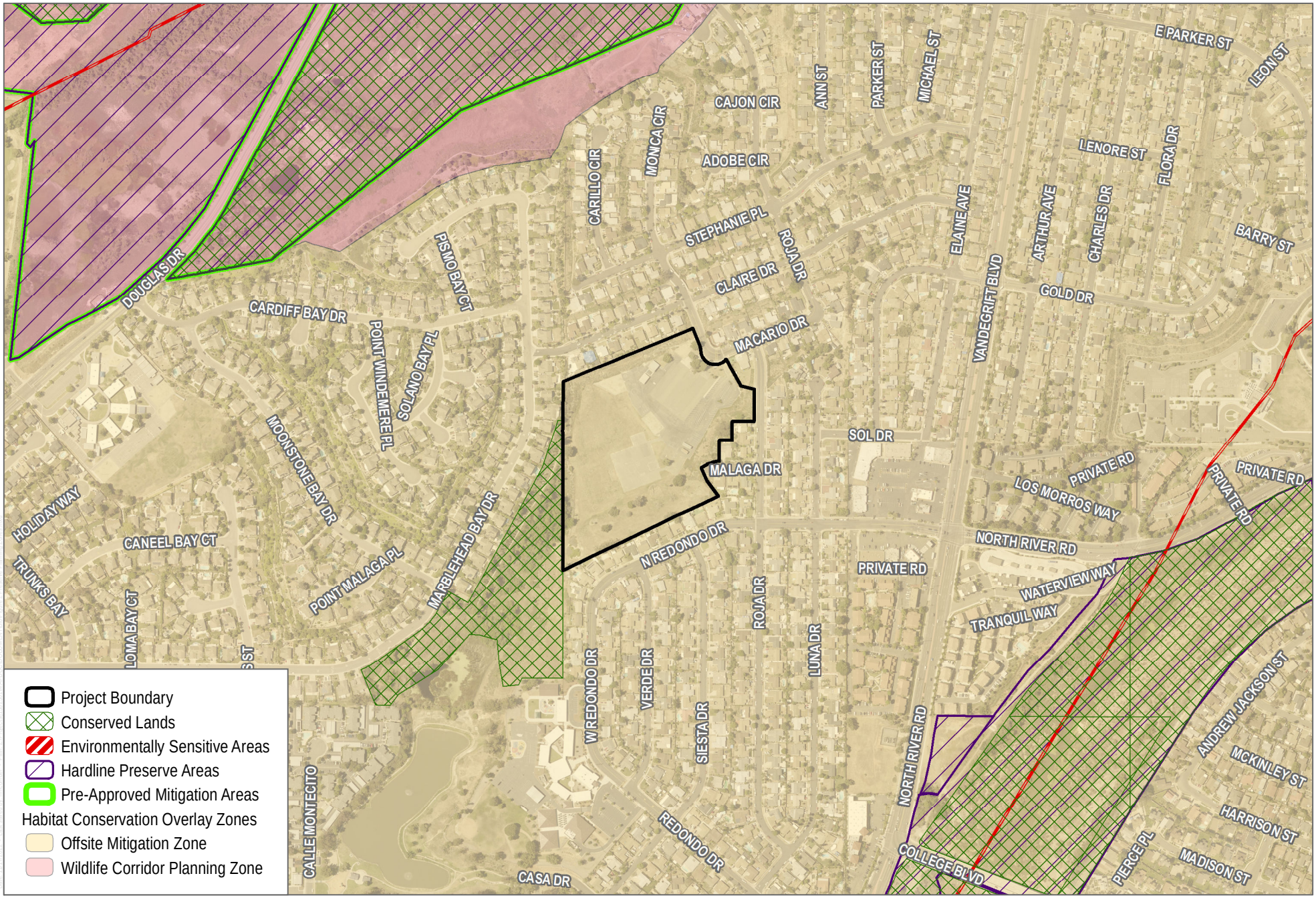
The Oceanside Subarea Plan identifies undeveloped lands within the City where conservation and management will achieve the Subarea Plan's biological goals while minimizing adverse effects on lands uses, economics, or private property rights. In addition, the Subarea Plan establishes preserve planning zones, the existing biological conditions and goals of which were used as foundations for their designation; however, the zones are defined for effective implementation of the Subarea Plan. The location of the project site in relation to these zones is show in Figure 2, City of Oceanside Preserve Planning Zones. Brief descriptions of the preserve planning zones are provided below:

- **Wildlife Corridor Planning Zone.** The Wildlife Corridor Planning Zone extends from U.S. Marine Corps Base Camp Pendleton south to Buena Vista Creek. This zone varies in width from 1 to 2 miles along most of its length and is centered roughly on El Camino Real and the associated San Diego Gas & Electric Company (SDG&E) electric transmission corridor. It encompasses those habitat parcels that potentially contribute to the north–south, regional gnatcatcher steppingstone corridor, recognizing that existing Preserve lands

north of the San Luis Rey River complete the steppingstone corridor connection to U.S. Marine Corps Base Camp Pendleton. The project site is located outside of the Wildlife Corridor Planning Zone. However, the Subarea Plan has specific standards for wildlife road crossings. For example, new roads or improvements to existing roads must include wildlife crossing improvements to accommodate safe animal movement between occupied habitats on either side of the road. Any new road should be located in the least environmentally damaging location.

- **Pre-Approved Mitigation Areas.** These areas represent land areas that have significant resource value and therefore will qualify for on-site mitigation credit. Development is allowed in pre-approved mitigation areas, subject to planning guidelines to avoid, minimize, and fully mitigate impacts. The project site is not located within a pre-approved mitigation area.
- **Agricultural Exclusion Zone.** This zone includes lands north of the San Luis Rey River that are planned for agricultural uses under the Oceanside General Plan. Ongoing agricultural practices may continue in this area as long as they do not remove existing natural habitats. The project site is not located within an agricultural exclusion zone.
- **Off-Site Mitigation Zone.** This zone includes all other parcels within the City of Oceanside that support natural vegetation outside of the Wildlife Corridor Planning Zone, agriculture exclusion zone, and coastal zone. The off-site mitigation zone includes several pre-approved mitigation areas. The project site is located within the City of Oceanside off-site mitigation zone (Figure 2, City of Oceanside Preserve Planning Zones).
- **Coastal Zone.** This zone all areas within the City's coastal zone where the federal Coastal Zone Management Act and California Coastal Act policies apply. The project site is not located within the coastal zone.

In addition to preserve planning zones, the Subarea Plan also identifies specific "hardline" and "softline" preserves. Generally, the Oceanside Subarea Plan describes hardline preserves as areas that are already preserved to Subarea Plan standards and softline preserves are areas specifically targeted for preservation through application of Subarea Plan standards and policies. Hardline preserves are also considered part of Focused Planning Areas. Preserve areas within the Subarea Plan area prohibit the following land uses: all forms of development, agricultural uses, active recreation, mineral extraction, landfills, itinerant worker camps, roads or other transportation facilities, most flood control projects, and brush control or fuel management, except for existing firebreaks that must be maintained for safety reasons within 100 feet of existing buildings (City of Oceanside 2010). Any implementation of these prohibited land uses within the preserve would require written concurrence from the City and CDFW and USFWS (the wildlife agencies) through an amendment process. Conditionally allowed land uses in preserve areas include passive recreation (i.e., hiking, birdwatching, and fishing); utility projects that include full restoration of temporarily impacted habitat, flood control, or siltation basins that support natural vegetation and habitat value; and maintenance of existing firebreaks adjacent to existing buildings. The project site is not located within a hardline or softline preserve.



SOURCE: SanGIS 2022; SANDAG 2022; City of Oceanside 2022

DUDEK

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FIGURE 2

City of Oceanside Preserve Planning Zones

Pacifica Residential Project

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3 Survey Methods

3.1 Literature and Database Review

Special-status plant and wildlife species present or potentially present in the project site were identified through a desktop literature search using the following sources: California Natural Diversity Database occurrence data[1] (CDFW 2022b), the Rare Plant Inventory[1] (CNPS 2022), USFWS occurrence data and critical habitat (USFWS 2022a), the San Diego Geographic Information Source (SanGIS 2022). Additionally, the U.S. Department of Agriculture's Natural Resources Conservation Service Web Soil Survey (USDA 2022a) was reviewed to determine soil types that exist within the boundary of the project site and a review of current and historical aerial photography was conducted to identify any potentially jurisdictional aquatic resources based on aerial signatures.

General information regarding wildlife species present in the region was obtained from Unitt (2004) for birds, Tremor et al. (2017) for mammals, and Stebbins (2003) and California Herps (CaliforniaHerps.com 2022) for reptiles and amphibians.

3.2 Survey Schedule

The 2021 and 2022 surveys and site conditions are presented in Table 1.

Table 1. Survey Details and Conditions

Date	Time	Survey Type	Personnel	Survey Conditions
10/22/2021	9:10 a.m.–2:37 p.m.	Biological Reconnaissance Survey, Vegetation Mapping, General Habitat Assessment	Shana Carey	70°F–83°F; 0% cloud cover, 1–5 mph wind
10/18/2022	8:00 a.m.–9:00 a.m.	Review and Confirmation of Existing Conditions	Shana Carey	71°F–77°F; 0% cloud cover, 1–5 mph wind

3.3 Vegetation Community and Land Cover Mapping

Vegetation communities were evaluated within the project site on an aerial map at a 200 scale (1 inch = 200 feet). These boundaries and locations were digitized and downloaded by Dudek geographic information system (GIS) technicians using ArcGIS software. Vegetation communities and land covers were mapped using the *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986) as modified by the County and noted in *Vegetation Communities of San Diego County* (Oberbauer et. al. 2008).

[1] U.S. Geological Survey 7.5-minute Morro Hill quadrangle and surrounding eight quadrangles: Bonsall, Fallbrook, Temecula, San Luis Rey, San Marcos, Oceanside, Las Pulgas Canyon, and Margarita Creek.

3.4 Plants

All native and naturalized plant species encountered during field surveys were identified and recorded. Scientific and common names for plant species with a California Rare Plant Rank (formerly CNPS List) follow the CNPS Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022). For plant species without a California Rare Plant Rank, scientific names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2022) and common names follow the U.S. Department of Agriculture Natural Resources Conservation Service Plants Database (USDA 2022b). A cumulative list of plant species observed in the project site is presented in Appendix A. This list is not all-inclusive in that it does not include a comprehensive list of all the ornamental species observed.

3.5 Wildlife

The entire site was surveyed to identify and record all wildlife species, as detected by sight, calls, tracks, scat, or other signs. Binoculars (7×50 power) were used to aid in the identification of observed wildlife. In addition to species observed, expected wildlife use of the site was determined according to known habitat preferences of regional wildlife species and knowledge of their relative distributions in the area. No trapping or focused surveys for special-status or nocturnal species were conducted. Latin and common names of animals follow Crother (2017) for reptiles and amphibians, American Ornithological Society (AOS 2018) for birds, Wilson and Reeder (2005) for mammals, and North American Butterfly Association (NABA 2016) or San Diego Natural History Museum (SDNHM 2002) for butterflies. A cumulative list of wildlife species observed within the site is presented in Appendix B.

3.6 Special-Status Species

Special-status biological resources are defined as follows: (1) species that have been given special recognition by federal, state, or local conservation agencies and organizations due to limited, declining, or threatened population sizes; (2) species and habitat types recognized by local and regional resource agencies as special status; (3) habitat areas or vegetation communities that are unique, are of relatively limited distribution, or are of particular value to wildlife; (4) wildlife corridors and habitat linkages; or (5) biological resources that may or may not be considered special status, but are regulated under local, state, and/or federal laws.

Special-status plant species considered in this report are those that are (1) species listed by federal and/or state agencies, proposed for listing as threatened or endangered, or are candidate species (CDFW 2022d; (2) species with a CRPR (CNPS 2022); or (3) species listed on the Oceanside Subarea Plan Proposed Covered Species list (City of Oceanside 2010).

No focused surveys for special-status plants or wildlife were conducted as the proposed development footprint, site conditions (existing habitat, soils, and elevation) and site surroundings did not warrant them. There were no incidental detections of any sensitive plant or wildlife species, either through sight, calls, tracks, scat, or other signs. A summary of the dates and site conditions for the field efforts performed as part of this biological report are presented above in Table 1.

4 Physical Characteristics

4.1 Site Description

The approximately 14.55-acre project site was the site of the former Pacifica Elementary School, which was closed down and demolished in the early 2000s and is not currently being used for any other functions. Although no walled structures remain, there are remnant pavement, parking lot, and playground areas, as well as curbs, an overgrown sandbox, 4 post-shade structure, and a large field regularly mowed (for fire abatement) about every 2.5 months per the school district facilities department. There are scattered, mature, non-native ornamental trees throughout this area. Beyond these areas, the topography slightly rises as the edges of the site parcels are bounded by approximately 20' - 30' slopes up to existing single-family homes on the north, south, east, and northwest sides of the site. Additionally, the site slopes downward slightly in the southwest towards Libby Lake Park. The field and the slopes are predominantly composed of non-native, invasive plant species. In total, two vegetation communities/land covers were mapped within the project site including: disturbed habitat and urban/developed (Table 2), which are discussed in more detail in section 5.1. Elevations on site range from approximately 80 above mean sea level to 120 feet above mean sea level.

4.2 Soils

Four soil map units occur within the overall project site, however, only three soil types are mapped within the proposed development footprint: Grangeville fine sandy loam, 0% to 2% slopes; Las Flores sandy loam, 2% to 9% slopes; Las Flores loamy fine sand, 15% to 30% slopes, eroded (USDA 2022a). The other soil type is located on the extreme southern perimeter of the site where no impacts are proposed. Las Flores soils are usually slightly acidic, loamy sands on gently to strong slopes; they are found on marine terraces at elevations of less than 700 feet amsl. Grangeville soils are on alluvial fans and floodplains at elevations of 0 to 1800 feet. They are formed in moderately coarse textured alluvium dominantly derived from granitic rock sources (USDA 2022a).

4.3 Hydrology

Hydrology within the review area is typical of other developed and disturbed environs in northern San Diego county. Water falling as precipitation throughout the project site likely percolates into the ground. There is also a small in-ground drainage grate in the extreme southwest corner of the site, which likely catches water in this localized area before it leaves the site. This area was reviewed for potential wetlands or non-wetland waters (jurisdictional aquatic features), and none were observed.

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5 Results

5.1 Vegetation Communities

One vegetation community and one land cover type were identified within the project site. As shown in Table 2 below, disturbed habitat makes up the majority of the site and includes the field area and slopes along the edges of the site. Developed land is the next largest land cover type and consists mainly of the remnant paved areas associated with the old elementary school. Figure 3, Vegetation Communities and Land Cover Types, also shows these vegetation communities and land covers.

Table 2. Vegetation Communities and Land Covers within the Project Site

Vegetation Community/Land Cover Type	Acreage
Disturbed Habitat	9.28
Urban/developed	5.27
Total	**14.55**

5.1.1 Disturbed Habitat

Disturbed habitat are areas that have been physically disturbed and are no longer recognizable as a native or naturalized vegetation association, however these areas may continue to retain soil substrate. If vegetation is present, it is almost entirely composed of non-native vegetation, such as ornamentals or ruderal exotic species (Oberbauer et. al. 2008). Examples of these areas may include graded landscapes, graded firebreaks, graded construction pads, temporary construction staging areas, off-road-vehicle trails, areas repeatedly cleared for fuel management, or areas that are repeatedly used in ways that prevent revegetation (e.g., parking lots, trails that have persisted for years).

Disturbed areas occupy 9.09 acres on site and are predominantly located within western half of the project site as well as along the northern, southern, and eastern slopes. The large field that is regularly mowed along the western side is dominated by Russian thistle *(Salsola tragus*), Bermuda grass (*Cynodon dactylon*), telegraph weed (*Heterotheca grandiflora*), and various species of bromes (*Bromus sp*.). Also present to a lesser extent is Australian saltbush (*Atriplex semibaccata*), prickly lettuce (*Lactuca serriola*), and Menzies' golden bush (*Isocoma menziesii*). Along the slopes the dominant species include hottentot fig (*Carpobrotus edulis*), wild oat *(Avena barbata*), as well as Russian thistle and various and bromes and mustards (*Brassica sp.* and *Hirschfeldia* sp.). There were several scattered native coyote brush (*Baccharis pilularis*) individuals along the perimeter slopes as well. Several non-native trees such as Brazillian peppertree (*Schinus terebinthifolia*), liquid amber (*Liquidambar styraciflua*), Mexican fan palm (*Washingtonia robusta*) and eucalyptus are also located along the slopes and edges of the disturbed habitat areas that were planted for ornamental landscaping.

One small patch of disturbed, flat-topped buckwheat (*Eriogonum fasciculatum*) occupies a portion of the disturbed habitat, growing within the project site's western slope, interspersed within a larger swath of hottentot fig. Flat-topped buckwheat is a near monoculture community that usually results from disturbance and often occurs in the coastal and foothill area of San Diego County (Oberbauer et al. 2008). Within the project site, this vegetation is not functioning as a native vegetation community due to the high disturbance, patchy cover and small size. Therefore, this area is identified on Figure 3 but the area is included as disturbed habitat.

5.1.2 Urban/Developed Land

Urban or developed land covers refer to areas that have been constructed on or otherwise physically altered to the point where vegetation is no longer present. Urban or developed areas are characterized by permanent or semi-permanent structures, hardscapes, and landscaped areas that require irrigation (Oberbauer et. al. 2008).

Developed areas occupy 5.27 acres on site and are predominantly located within eastern half of the project site and include the remnant paved areas associated with the old Pacifica Elementary School including the parking lot and playground areas, as well as curbs, sandbox, and 4 post-shade structure. There are several non-native shrubs and trees including junipers (*Juniperus sp*.), pines (*Pinus sp*.), and Japanese elm (*Ulmus parvifolia*) in this area that were planted for ornamental landscaping.

5.2 Flora and Fauna

A total of 31 plants were observed during 2021 and 2022 surveys, including 6 native (19%) and 25 non-native (81%) species. A cumulative list of plant species observed by Dudek is presented in Appendix A, Plant Species List. Latin and common names for plant species with a CRPR follow the CNPS On-Line Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022). For plant species without a CRPR, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2022) and common names follow the California Natural Community list (CDFW 2022c).

A total of 8 wildlife species were observed during 2021 and 2022 surveys, all of which were birds commonly found in the region. All wildlife species observed or detected during the surveys were recorded and are presented in Appendix B, Wildlife Species List. Latin and common names of animals follow Crother (2017) for reptiles and amphibians, American Ornithological Society (AOS 2018) for birds, Wilson and Reeder (2005) for mammals, and North American Butterfly Association (NABA 2016) or San Diego Natural History Museum (SDNHM 2002) for butterflies.

5.3 Special-Status Plants

No special-status plants were observed during surveys in 2021 or 2022. No special-status plants are expected to occur within the project site. Out of an abundance of caution, a search of CDFW and USFWS databases was conducted for the following species as they are known to occur in disturbed soils.

This search indicated that the nearest known occurrence of thread-leaved brodiaea (*Brodiaea filifolia*), listed as a California endangered 1B.1 rare plant, is approximately 1.5 miles away near Windmill Canyon within the Marine Corps Camp Pendleton base. The nearest known occurrence of Orcutt's brodiaea (*Brodiaea orcuttii*), also listed as a California endangered 1B.1 rare plant, is approximately 3.8 miles northwest also within Camp Pendleton (CDFW 2022b). In addition, the site does not contain clay soils so the likelihood of brodiaea occupation is not expected. Lastly, the site has a long history of disturbance and repeated mowing. Cumulatively, all of these factors create an environment on site that is not likely to support these species, and therefore they are not expected to occur on site.

A search of the California Natural Diversity Database (CDFW 2022b) occurrences shows a record of Parry's tetracoccus (*Tetracoccus dioicus*), listed as a California endangered 1B.2 rare plant, overlapping the site in 1966. Parry's tetracoccus typically occurs in coastal sage scrub and chaparral; this habitat type does not currently exist on the site but may have been present historically as the elementary school was opened in 1980. Due to the large span of time

since the species was documented on site (over 50 years), coupled with the repeated disturbance and regular mowing, the project site is not likely to support this species, and therefore it is not expected to occur on site.

There is no federally designated critical habitat (USFWS 2022b) for special-status plants located within the project site.

5.4 Special-Status Wildlife

No special-status wildlife were observed during surveys in 2021 or 2022. No special-status wildlife species are expected to occur within the project site. A discussion of sensitive species that have either been documented in the vicinity or have historically been present in the vicinity is included below.

A search of the California Natural Diversity Database (CDFW 2022b) shows records of two different sensitive wildlife species overlapping the site: tricolored blackbird (*Agelaius tricolor*), and Stephen's kangaroo rat (*Dipodomys stephensi*). The Stephen's kangaroo rat record overlapping the site is from 1988. It is highly unlikely that this species still remains in the area due to the nature of the heavy residential development and disturbance in the area and on the site which has greatly reduced the species' habitat. The tricolored blackbird was recorded in the area most recently in 2014; likely due to the close proximity of the marsh and Little Libby Lake. The species may seldomly fly over or land on the site but is not expected to remain on site as there is no suitable habitat for breeding or foraging.

Additionally, there is no federally designated critical habitat (USFWS 2022b) for special-status wildlife located within the project site or in the immediate vicinity.

5.5 Jurisdictional Aquatic Resources

No potential wetland or non-wetland waters, jurisdictional aquatic features, or associated riparian habitat were documented within the project site.

5.6 Wildlife Corridors/Habitat Linkages

The project site is located outside of the Wildlife Corridor Planning Zone designated by the Oceanside Subarea Plan (City of Oceanside 2010) (Figure 2). The site is almost completely surrounded by development, which limits movement of larger mammals. The project site is also relatively isolated from large undeveloped areas as well as habitat preserves and does not support habitat essential for the movement of wildlife species.

Urban-adapted species that could commonly occur in the disturbed areas within the project site include California ground squirrel (*Spermophilus [Otospermophilus] beecheyi*), desert cottontail (*Sylvilagus audubonii*), coyote (*Canis latrans*), western fence lizard (*Sceloporus occidentalis*), common side-blotched lizard (*Uta stansburiana*), horned lark (*Eremophila alpestris*), American crow (*Corvus brachyrhynchos*), house finch (*Haemorhous mexicanus*), and killdeer (*Charadrius vociferus*). These species may use the project site as a local foraging location while utilizing the adjacent park and lake.

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SOURCE: SANGIS 2020

DUDEK

0 100 200 Feet

FIGURE 3

Vegetation Communities and Land Cover Types

Pacifica Residential Project

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6 Anticipated Project Impacts and Analysis of Significance

This section addresses direct, indirect, and cumulative impacts to biological resources that would result from implementation of the proposed project.

Direct impacts are defined as those that result in the direct removal of a biological resource through clearing, grubbing, and/or grading. These impacts are further classified as temporary or permanent: temporary impacts primarily result from staging or work areas outside the permanent footprint that will be restored to its pre-project conditions, and permanent impacts refer to the buildings, roads, and other permanent structures. Indirect impacts primarily result from adverse "edge effects" as either short-term indirect impacts related to construction activities or long-term indirect impacts associated with the proximity of apartments to open space areas.

Cumulative impacts refer to incremental individual environmental effects over the long-term implementation of the project when considered together with other impacts from other projects in the area. These impacts taken individually may be minor, but can become collectively significant as they occur over a period of time.

6.1 Explanation of Findings of Significance

Impacts to special-status vegetation communities, special-status plants, special-status wildlife species, jurisdictional resources, and wildlife movement must be quantified and analyzed to determine whether such impacts are significant under CEQA. CEQA Guidelines Section 15064(b) states that an ironclad definition of "significant" effect is not possible because the significance of an activity may vary with the setting. Appendix G of the Guidelines, however, does provide "examples of consequences which may be deemed to be a significant effect on the environment" (14 CCR 15064[e]). These effects include substantial effects on rare or endangered species of animals or plants or the habitat of the species. Guidelines Section 15065(a) is also helpful in defining whether a project may have "a significant effect on the environment." Under that section, a proposed project may have a significant effect on the environment if the project has the potential to: (1) substantially degrade the quality of the environment; (2) substantially reduce the habitat of a fish or wildlife species; (3) cause a fish or wildlife population to drop below self-sustaining levels; (4) threaten to eliminate a plant or animal community; (5) substantially reduce the number or restrict the range of an endangered, rare or threatened species; or (6) eliminate important examples of the major period of California history or prehistory.

6.2 Definition of Impacts

6.2.1 Direct Impacts

Direct, permanent impacts refer to the absolute and permanent physical loss of a biological resource due to clearing and grading associated with implementation of the proposed project. Direct, permanent impacts are analyzed in four ways: (1) permanent loss of vegetation communities and land covers, and general wildlife and their habitat; (2) permanent loss of or harm to individuals of special-status plant and wildlife species; (3) permanent loss of suitable habitat for special-status species; or (4) permanent loss of wildlife movement and habitat connectivity in the project vicinity.

Direct, temporary impacts refer to a temporal loss of vegetation communities and land covers resulting from vegetation and land cover clearing and grading associated with implementation of the proposed project. The main criterion for direct, temporary impacts is that impacts would occur for a short period of time and would be reversible.

6.2.2 Indirect Impacts

Indirect impacts are reasonably foreseeable effects caused by project implementation on remaining or adjacent biological resources outside the direct disturbance zone that may occur during grading or maintenance activities (i.e., short-term construction-related indirect impacts) or later in time as a result of the program (i.e., long-term, or operational, indirect impacts). Short-term indirect impacts can include dust, human activity, pollutants (including potential erosion), and noise that extend beyond the identified construction area. Long-term indirect impacts can include changes to hydrology, introduction of invasive species, dust, and noise that are operations related or occur over the long term.

For each of the following impact sections, direct and indirect impacts for biological resources are identified and a significance determination is made for each impact. For each significant impact, mitigation measures that would reduce the impact to less than significant are proposed.

6.3 Impacts to Vegetation Communities and Land Covers

The proposed project would result in permanent direct impacts through grading and development of the proposed project within the project site. These impacts are summarized in Table 3 below and shown on Figure 4, Proposed Impacts to Vegetation Communities and Land Cover Types.

Table 3. Permanent Impacts to Vegetation Communities and Land Covers

Vegetation/Land Cover Type	Acreages		Mitigation
	Total	*Impact*	
Disturbed habitat	9.28	4.96	None required
Urban/developed	5.27	5.21	None required
Total[a]	**14.55**	**10.17**	**None required**

Notes:
[a] Per Table 5-2 in the Subarea Plan (City of Oceanside 2010).

The project is expected to permanently impact 4.96 acres of disturbed habitat and 5.21 acres of urban/developed land. These impacts are considered less than significant per Table 5-2, Mitigation Standards for Impacts to Natural Vegetation and Habitat, in the Subarea Plan (City of Oceanside 2010), and no mitigation is required.

6.4 Impacts to Special-Status Plant Species

The project is not expected to directly or indirectly impact populations of special-status plant species since none have the potential to occur within the project site.

6.5 Impacts to Special-Status Wildlife Species

The project is not expected to directly or indirectly impact special-status wildlife species since none have the potential to occur within the project site.

6.5.1 Other Protected Species

The California Fish and Game Code protects bird nests and the MBTA prohibits the intentional take of any migratory bird or any part, nest, or eggs of any such bird. Construction-related ground-disturbing activities (clearing, grubbing, grading) or other activities that result in the removal of vegetation that occur during the nesting bird season, or any impacts to active nests or the young of nesting bird species, as well as impacts to raptors that could nest in the mature ornamental trees on site, would be potentially significant. This impact shall be mitigated to less than significant through nesting bird surveys and establishment of appropriate buffers, as described in MM-BIO-1 (Nesting Bird Surveys), provided in Section 7.1.

6.6 Impacts to Jurisdictional Aquatic Resources

There are no potential waters or features present within the project site, so no direct or indirect impacts to jurisdictional aquatic resources would occur as a result of project implementation.

6.7 Impacts to Wildlife Corridors/Habitat Linkages

The project site is located outside of the Wildlife Corridor Planning Zone designated by the Oceanside Subarea Plan, so no direct or indirect impacts to wildlife corridors or habitat linkages would occur as a result of the proposed project.

6.8 Cumulative Impacts

The cumulative project site is the area covered by the Oceanside Subarea Plan (City of Oceanside 2010). Direct impacts to special-status plants and special-status wildlife are not expected to occur due to project implementation and therefore would not contribute to any cumulative sensitive species impacts. The project would implement standard best management practices. As with all other projects, the proposed project would be required to comply with the California Fish and Game Code and MBTA to avoid impacts to nesting birds. Therefore, the project is not anticipated to result in significant cumulative impacts to regional biological resources.

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SOURCE: SANGIS 2020

DUDEK

0 100 200 Feet

FIGURE 4

Proposed Impacts to Vegetation Communities and Land Cover Types

Pacifica Residential Project

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7 Avoidance, Minimization, and Mitigation Measures

There are no potential direct or indirect significant impacts anticipated to vegetation communities, special-status species, jurisdictional resources, or wildlife corridors/habitat linkages as a result of this project.

7.1 Minimization and Mitigation Measures

The following minimization and mitigation measures shall be implemented to reduce potential direct and indirect impacts to less than significant.

MM-BIO-1 **Nesting Bird Surveys.** To avoid any direct impacts to raptors and/or any migratory birds protected under the Migratory Bird Treaty Act (16 USC 703 et seq.) and Fish and Game Code (3503 and 3503.5), removal of habitat shall occur outside of the nesting season for these species (i.e., outside of February 15 through August 31, annually). If, however, removal of habitat must occur during the nesting period, the proposed Project applicant or its designee shall retain a biologist to conduct a pre-construction survey to determine the presence or absence of nesting birds in the proposed area of disturbance. The pre-construction survey must be conducted within 72 hours prior to the start of construction and shall be repeated if construction activities discontinue for more than 3 consecutive days.

Impacts to active nests are typically avoided as follows. Clearing and construction shall be postponed or halted within the following buffers to be established by the biologist: (1) no work within 50 feet of a non-listed and non-raptor avifauna nest; and (2) no work within 500 feet of a raptor nest. Raptor nests are not anticipated within the immediate Project site due to lack of suitable nesting habitat, however, trees within 500 feet of the Project boundary could support raptor nesting. The construction avoidance area shall be clearly demarcated in the field with highly visible construction fencing or flagging, and construction personnel shall be instructed on the sensitivity of nest areas. To the extent possible, the no-construction buffer zones shall be avoided until the nesting cycle is complete. However, it may be reasonable for the City to reduce these buffer widths depending on site conditions. If construction-related activities must take place within an active nest buffer area, the proposed project applicant or its designee shall present a plan the City with measures to monitor and minimize impacts to nesting birds. No ground-disturbance activities shall occur within the avoidance buffer zone until the qualified biologist has determined that the nest is no longer active and the young are not dependent on the nest.

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14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

16 USC 1531–1544. Endangered Species Act of 1973, as amended.

16 USC 668–668d. Bald and Golden Eagle Protection Act, as amended.

16 USC 703–712. Migratory Bird Treaty Act, as amended

66 FR 3853–3856. Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds.

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California Fish and Game Code, Section 2053. General Provisions of California Endangered Species.

California Fish and Game Code, Section 3503–3513. General Bird Provisions.

California Fish and Game Code, Section 4700. Fully Protected Mammals.

California Public Resources Code, Sections 21000–21177. California Environmental Quality Act.

California Water Code Division 7, Sections 13000–16104. Porter–Cologne Water Quality Control Act.

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Appendix A

Plant Compendium

Vascular Species

Eudicots

AIZOACEAE – FIG-MARIGOLD FAMILY

* *Carpobrotus edulis* – hottentot fig

ANACARDIACEAE – SUMAC OR CASHEW FAMILY

* *Schinus terebinthifolius* – Brazilian peppertree

ARALIACEAE – GINSENG FAMILY

* *Hedera helix* – English ivy

ASTERACEAE – SUNFLOWER FAMILY

Baccharis pilularis – coyote brush
Encelia californica – California brittle bush
Heterotheca grandiflora – telegraphweed
Isocoma menziesii – Menzies's golden bush

* *Lactuca serriola* – prickly lettuce

BRASSICACEAE – MUSTARD FAMILY

* *Brassica nigra* – black mustard
* *Hirschfeldia incana* – shortpod mustard

CHENOPODIACEAE – GOOSEFOOT FAMILY

* *Atriplex semibaccata* – Australian saltbush
* *Bassia hyssopifolia* – fivehorn smotherweed
* *Salsola tragus* – prickly Russian thistle

EUPHORBIACEAE – SPURGE FAMILY

* *Euphorbia maculata* – spotted sandmat

LINACEAE – FLAX FAMILY

* *Liquidambar styraciflua* – sweetgum

MYRTACEAE – MYRTLE FAMILY

* *Corymbia citriodora* – lemonscented gum

OLEACEAE – OLIVE FAMILY

* *Olea europaea* – olive

POLYGONACEAE – BUCKWHEAT FAMILY

Eriogonum fasciculatum – California buckwheat

ROSACEAE – ROSE FAMILY

* *Rhaphiolepis indica* – Indian hawthorn

SOLANACEAE – NIGHTSHADE FAMILY

* *Nicotiana glauca* – tree tobacco

ULMACEAE – ELM FAMILY

* *Ulmus parvifolia* – Chinese elm

ZYGOPHYLLACEAE – CALTROP FAMILY

* *Tribulus terrestris* – puncturevine

Gymnosperms and Gnetophytes

CUPRESSACEAE – CYPRESS FAMILY

Juniperus californica – California juniper

Monocots

ARECACEAE – PALM FAMILY

* *Washingtonia robusta* – Washington fan palm

POACEAE – GRASS FAMILY

* *Avena barbata* – slender oat
* *Bromus diandrus* – ripgut brome
* *Bromus hordeaceus* – soft brome
* *Bromus rubens* – red brome
* *Cynodon dactylon* – Bermudagrass
* *Pennisetum setaceum* – fountain grass
* *Stipa miliacea* – no common name

* signifies introduced (non-native) species

Appendix B

Wildlife Compendium

Birds

Finches

FRINGILLIDAE – FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus – house finch

Spinus psaltria – lesser goldfinch

Flycatchers

TYRANNIDAE – TYRANT FLYCATCHERS

Sayornis nigricans – black phoebe

Hummingbirds

TROCHILIDAE – HUMMINGBIRDS

Calypte anna – Anna's hummingbird

Jays, Magpies and Crows

CORVIDAE – CROWS AND JAYS

Corvus brachyrhynchos – American crow

Pigeons and Doves

COLUMBIDAE – PIGEONS AND DOVES

Zenaida macroura – mourning dove

Shorebirds

CHARADRIIDAE – LAPWINGS AND PLOVERS

Charadrius vociferus – killdeer

New World Sparrows

PASSERELLIDAE – NEW WORLD SPARROWS

Melozone crissalis – California towhee

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Appendix E

Cultural Resources Inventory Report

DUDEK
MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

December 28, 2022 13823

Johanna Crooker
MLC Holdings

Subject: Negative Cultural Resources Inventory Report for the Pacifica Elementary Project, City of Oceanside, California

Dear Ms. Crooker:

The following letter report summarizes the negative results of the cultural resources inventory conducted for the Pacifica Elementary Project (Project), located in the City of Oceanside, California (Figure 1). This cultural resources investigation was conducted in accordance with the California Environmental Quality Act (CEQA) and the City of Oceanside Guidelines for historical resources. The City of Oceanside (City) is the CEQA Lead Agency for the Project. In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project area. The Project area consists of the approximately 14.55-acre property (Figure 2).

A South Coastal Information Center (SCIC) records search identified no previously recorded cultural resources within the Project area. A Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search was requested, and results were negative. An intensive pedestrian survey of the Project did not identify any cultural resources or built environment resources within the Project area. The review of the historic aerials reveals that all native topsoils that would have had the potential to contain cultural deposits have been removed from the Project area. The Project area has been entirely disturbed by ground-disturbing activities related to the development of a reservoir, earthen dam, and the grading and development of a public elementary school. Artificial fill is located to depths ranging between 2 to 25.5 feet below existing grade (GeoTek, Inc. 2022). No prehistoric or historic age resources will be present within the fill sediment.

Dudek's cultural resources inventory of the Project indicates that there is a low sensitivity of identifying intact subsurface cultural resources deposits during Project implementation. No further archaeological efforts or mitigation, including archaeological monitoring, are recommended to be necessary in support of implementation of the Project.

1 Project Description and Location

The Project area is located at 4991 Macario Drive in the City of Oceanside, California in northwest San Diego County. The Project site falls within Sections 4 and 33 of Township 10 South, 11 South, Range 4 West of the Morro Hill, California 7.5-minute U.S. Geological Survey Topographic Quadrangle Map (Figure 1). The Project area is bound by residential properties to the north and south, a sewer lift station, Macario Drive, and single-family dwellings to the east, and vacant land and Libby Lake to the west. The San Luis Rey River is located approximately 0.4 miles southeast of the Project area.

The proposed Project consists of a for-sale 164-unit Planned Development Community to be developed on a 14.55-acre site located at the former Pacifica Elementary School site at 4991 Macario Drive. The neighborhood will consist of three-story attached townhomes oriented towards internal paseos and drives throughout the site. New homes will range in size from a minimum of approximately 1200 square feet to 1800 square feet with two (2) to three (3) bedrooms and an attached 2-car garage (either side-by-side or tandem configuration). Each home will include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 53,700 square feet of open space, will be designed with urban-style amenities such as tot lots, an off-leash dog space, pickle ball courts, bocce ball areas, barbecue areas, and space fora variety of outdoor games.

The new community will blend into the surrounding neighborhood by keeping the existing slopes along the internal property lines as well as remaining open without gates at the main entry drive into the site. Architectural and landscape styles will reflect the traditional neighborhood. Buildings will be designed to engage and enhance an interconnected series of landscaped pathways and sidewalks along internal drives out to the surrounding streets to support convenient, safe, and efficient pedestrian movements that promote walkability and transit use. The Project area consists of the approximately 14.55-acre property encompassing Assessor Parcel Numbers (APNs) 122-190-22-00, 122-190-19-00, and 157-070-42-00 (Figure 2).

2 Regulatory Framework

The City is the Lead Agency for compliance with the CEQA. This study is compliant with cultural resource regulations that apply to the Project area including provisions for the California Register of Historic Resources (CRHR), Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.), the California Native American Graves Protection and Repatriation Act, CEQA, California Health and Safety Code section 7050.5 and Public Resources Code Section 5097.98, Assembly Bill Number 52, and the City's Guidelines.

2.1 The California Register of Historic Resources (Public Resources Code section 5020 et seq.)

Under CEQA, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code section 5020.1(j)). In 1992, the California legislature established CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code section 5024.1(a)). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria:

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.

- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

(California Public Resources Code section 5024.1(c).) Resources less than 50 years old are not considered for listing in the CRHR, but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR, section 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

2.2 Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NRHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California Public Resources Code section 21083.2(g): Defines “unique archaeological resource.”
2. California Public Resources Code section 21084.1 and CEQA Guidelines section 15064.5(a): Define historical resources. In addition, CEQA Guidelines section 15064.5(b) defines the phrase “substantial adverse change in the significance of an historical resource;” it also defines the circumstances when a project would materially impair the significance of a historical resource.

3. California Public Resources Code section 5097.98 and CEQA Guidelines section 15064.5(e): Set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
4. California Public Resources Code sections 21083.2(b)-(c) and CEQA Guidelines section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(b)). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines section 15064.5(b)(1); California Public Resources Code section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

See Section 1.2.2, below for a discussion of the CEQA guidelines for determining significance and mitigating impacts to unique archaeological resources.

2.5 California Health and Safety Code section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

2.6 Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCR). Public Resources Code section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or
2. determined by a lead agency to be a TCR.

2.7 City of Oceanside Guidelines

Chapter 14A of the City of Oceanside Municipal Code, referred to as the Historical Preservation Ordinance, identifies evaluation criteria under which a historical site or area may be designated (City of Oceanside 2017: Section 14A.6, Ordinance No. 82-14, Section 1, 9-8-82):

a) It exemplifies or reflects special elements of the city's cultural, social, economic, political, aesthetic, engineering, or architectural history; or

b) It is identified with persons or events significant in local, state, or national history; or

c) It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship; or

d) It is representative of the notable work of a builder, designer, or architect; or

e) It is found by the council to have significant characteristics which should come under the protection of this chapter.

3 Methods

3.1 Records Search

3.1.1 Previous Cultural Resources Reports

Dudek requested a records search at the South Coastal Information Center (SCIC) at San Diego State University for the Project area and a 1-mile radius around the Project area on October 28, 2021. The record search identified 56 previous cultural resources studies have been conducted within 1-mile of the Project area. Two of these previous studies intersect the current Project area and are listed in Table 1 below. These studies include an archaeological survey and a cultural and historical resources study. These studies have addressed a small portion (10%) of the Project area. The studies that do not intersect the Project area and not listed below in Table 1 are included in Confidential Appendix A.

Table 1. Reports Intersecting the Project Area

Report Number	Authors	Date	Title
SD-01306	RECON	1978	An Archaeological Survey for Whelan Ranch
SD-14069	ASM Affiliates, Inc.	2011	Cultural and Historical Resource Study for the City of Oceanside General Plan- Circulation Element update Program Environmental Impact Report (PEIR)

3.1.2 Previously Recorded Cultural Resources

The SCIC records search also revealed that no cultural resources have been recorded within the Project area. The records search identified a total of 32 cultural resources within the 1-mile search radius of the Project area (Table 2). Of the total 32 resources identified in the 1-mile search radius of the Project area, 26 are prehistoric resources, five are historic resources, and one is a multicomponent site. No historic addresses have been recorded within the Project area, however, one historic address is located within the within the 1-mile search radius of the Project area. The results of the records search and all DPR forms are attached as part of Confidential Appendix A.

Table 2. Previously Recorded Cultural Resources in the 1-Mile Record Search Radius

Primary Number	Trinomial	Age	Description	In/ Out of Project Area
P-37-001248	CA-SDI-001248	Prehistoric	Bedrock Milling Site with lithic scatter	Out

P-37-001266	CA-SDI-001266	Prehistoric	Occupation site or large village; small workshops: lithic scatter and pot sherds	Out
P-37-001269	CA-SDI-001269	Prehistoric	Camp site or workshop of SDI-001266: lithic scatter	Out
P-37-001270	CA-SDI-001270	Prehistoric	Workshop for SDI-001266: lithic scatter	Out
P-37-001271	CA-SDI-001271	Prehistoric	Camp or workshop/grinding station for SDI-001266: lithic scatter and potsherd	Out
P-37-001274	CA-SDI-001274	Prehistoric	Occupation site: lithic scatter	Out
P-37-001275	CA-SDI-001275	Prehistoric	Occupation or camp site: lithic scatter	Out
P-37-001276	CA-SDI-001276	Prehistoric	Handstone	Out
P-37-005457	CA-SDI-005457	Prehistoric	Shell scatter	Out
P-37-005458	CA-SDI-005458	Prehistoric	Shell scatter	Out
P-37-005459	CA-SDI-005459	Prehistoric	Shell scatter	Out
P-37-006908	CA-SDI-006908	Prehistoric	Campsite: bedrock milling features, lithic scatter, and potsherd	Out
P-37-006909	CA-SDI-006909	Prehistoric	Campsite: bedrock milling features and lithic scatter	Out
P-37-008726	CA-SDI-008726	Prehistoric	Bedrock Milling Site	Out
P-37-008727	CA-SDI-008727	Prehistoric	Campsite: bedrock milling features, lithic scatter, potsherds	Out
P-37-008728	CA-SDI-008728	Prehistoric	Campsite: bedrock milling features and lithic scatter	Out
P-37-008729	CA-SDI-008729	Historic	Petroglyphs	Out
P-37-008730	CA-SDI-008730	Prehistoric	Bedrock milling feature	Out
P-37-008731	CA-SDI-008731	Prehistoric	Lithic scatter and potsherd	Out
P-37-008732	CA-SDI-008732	Prehistoric	Bedrock milling feature	Out
P-37-008733	CA-SDI-008733	Prehistoric	Bedrock milling feature	Out
P-37-008778	CA-SDI-008778	Prehistoric	Bedrock milling site	Out
P-37-011970	CA-SDI-011970	Multicomponent	Historic habitation site (house, barn, outbuildings) and historic artifacts, and prehistoric bedrock milling features and lithic scatter	Out
P-37-012241	CA-SDI-012241	Prehistoric	Lithic and groundstone scatter	Out
P-37-026841	CA-SDI-017549	Historic	Trash scatter and building materials	Out
P-37-037097	-	Prehistoric	Milling slab fragment	Out
P-37-038464	-	Historic	Single-family housing	Out
P-37-038465	-	Historic	Single-family housing	Out

P-37-038466	-	Prehistoric	Brownware pottery sherd fragment and shell fragment	Out
P-37-038467	-	Prehistoric	Brownware pottery sherd fragment	Out
P-37-038468	-	Prehistoric	Handstone	Out
P-37-038469	-	Historic	Single-family housing	Out

3.2 Archival Research

In addition to the SCIC records search, Dudek conducted an on-line review of historic aerial photographs and topographic (topo) maps of the Project area and general vicinity, to determine the possible development and land us of the Project area in the past. Historic aerials photographs of the Project area were available for 1938, 1946, 1953, 1964, 1967, 1978, 1980-1986, 1988, 1989-1991, 1993- 2000, 2002, 2003, 2005, 2009, 2010, 2012, 2014, 2016, 2018, and 2020 (NETR 2021a). The 1946 aerial shows grading within the center of the Project area. In the 1953 aerial, a reservoir is observed in the Project area. The 1964 aerial reveals that the reservoir has reduced further in size and grading is seen within the southwestern section of the Project area. The construction of a residential development is observed immediately to the south of the Project area. In the 1967 aerial, the reservoir appears to have been drained and residential development is observed to the east of the Project area. In the 1978 aerial, the Project area has been graded, and the first building appears in the form of a large 210-feet by 240-feet school building on the northeast end of the Project area. Residential development is observed to the north and east of the Project area. No drastic changes are observed in the 1981 to 1983 aerials. In the 1984 aerial, a paved parking lot surrounds the building in the northeast section of the Project area. No drastic changes are observed on the 1985 to 1993 aerials. In the 1994 aerial, a modular classroom building to the west of the large, primary building is observed. A residential development is observed to the west of the Project Area. No drastic changes are observed on the 1995 to 1997 aerials. In the 1998 aerial, a standing shade structure is observed to the south of the modular classroom. No drastic changes are observed on the 1999 to 2022 aerials. In the 2003 aerial, a cluster of 11 modular classroom buildings were observed near the center of the Project area. The 2005 aerial reveals that the primary 210-feet by 240-feet building on the property is has been demolished. In the 2009 aerial, a cluster of buildings replaced the primary 210-feet by 240-feet building and the modular classroom buildings observed near the center of the Project area are in the process of being removed. No drastic changes are observed on the 2010 to 2012 aerials. In the 2014 aerial, several of the buildings were removed from the Project area. No drastic changes are observed on the 2016 to 2020 aerials. A review of the historic aerials demonstrates that the Project area has been entirely disturbed by ground-disturbing activities related to the development of a reservoir, and the grading and development of a public elementary school. No historic structures are present within the Project area.

Historic topo maps of the Project area were reviewed (earliest map available is 1942). A creek feature is observed to the south of the Project area in the 1942, 1961, and 1964 topos and is no longer observed on the 1969 to 2018 topos. A reservoir feature covering a majority of the Project area is observed on the 1949 and 1960 topos. A school is observed in the 2015 topo but disappears on the 2018 topo. A review of the historic topo maps reveals that there are no historic-age structures within the Project area (NETR 2021b).

3.3 Geotechnical Study

GeoTek, Inc. completed a geotechnical study for the proposed Project area (completed January 19, 2022). The report, *Preliminary Geotechnical Evaluation Report, Proposed Pacific Elementary Re-Development, Assessor Parcel Numbers: 122-190-22-00, 122-190-19-00, 157070-42-00, Oceanside, California*, documents the subsurface geological conditions at the proposed Project area (GeoTek, Inc. 2022). The report details the Project background regarding previous geotechnical investigations, and the results of drilling 13 borings ranging between 5 and 46.5 feet below the existing ground surface.

Artificial fill was encountered to depths ranging between 2 to 25.5 feet below existing grade with the average depth across all borings ranging from 10 to 15 feet deep and located within the majority of the Project area. Alluvial soils (Quaternary Alluvium) were encountered in six borings to depths ranging between 11 to 46.5 feet below existing grades and located within the central sections of the Project area. Tertiary-age Santiago Formation (sedimentary bedrock) was encountered in eight borings at depths between 2 to 26.5 feet below existing grades and located in the northern and southern sections of the Project area. The site previously resided within an alluvial canyon and underlain by young to older alluvial deposits and bedrock of the Santiago Formation. The topography of the site has been graded as a building pad, as the site was developed and operated as an elementary school. An earthen dam was constructed to facilitate a water reservoir until the site was infilled to construct a flat earthen pad for construction of the elementary school (GeoTek, Inc. 2022).

3.4 NAHC and Tribal Correspondence

A search of the NAHC Sacred Lands File was requested on September 9, 2022 for the Project area and a 1-mile buffer. The SLF consists of a database of known Native American resources. These resources may not be included in SCIC database. The NAHC response was received on November 8, 2022 and results were negative (Appendix B). The NAHC additionally provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in this area.

Outreach letters were mailed on November 28, 2022 to all Native American group representatives included on the NAHC contact list (Appendix B). These letters attempted to solicit additional information relating to Native American resources that may be impacted by the Project. Native American representatives were requested to define a general area where known resource intersect the Project area. The Rincon Band of Luiseño Indians responded on December 12, 2022, recommending the presence of a Rincon Tribal monitor during the pedestrian survey and a copy of the cultural resources study. The Viejas Band of Kumeyaay Indians responded on December 28, 2022 and requested a Kumeyaay Cultural monitor to be on site during ground disturbing activity and would like to be informed of any new developments such as inadvertent discovery of cultural artifacts, cremation sites, or human remains. The NAHC correspondence is included in Appendix B.

In compliance with Assembly Bill 52, the City, as lead agency, is responsible for conducting government to government consultation with tribal entities.

3.5 Intensive Pedestrian Survey

Dudek archaeologist Makayla Murillo conducted an intensive level pedestrian survey of the proposed Project area on September 21, 2022. Saving Sacred Sites Native American monitor Vii Sialoi participated in the pedestrian survey. All survey work was conducted employing standard archaeological procedures and techniques consistent with the Secretary of the Interior Standards. Fifteen-meter interval survey transects were conducted in a north-south direction for the Project area. Within the transects, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials.

The entire Project area has been entirely disturbed, as evidenced by the presence of paved concrete and asphalt foundations, streetlights, children's sandbox, and a standing shade structure, and parking lot associated with the previous public elementary school (Figure 3). Approximately 65% of the Project area is paved with asphalt or concrete, while the rest of the Project area consists of vegetation including non-native grass, flat-topped buckwheat, and ice plants (Figure 4). A few non-native trees consisting of palm trees, eucalyptus, and peppertrees are present within the Project area.

In addition to the archaeological survey that was conducted, the Project area was also surveyed for potential built environment cultural resources. The survey confirmed that APN 157-070-42-00 was vacant and that APN 122-190-22-00 contains utilities, including a public sewer lift station, that were constructed circa 2016, and no other structures. The survey also confirmed that any historic age buildings have been demolished on APN 122-190-19-00 and the only extant structure on the property is a shade structure that was constructed circa 1998. Therefore, there are no built environment cultural resources within the Project area.

No cultural resources or built environment resources were identified within the Project area.

4 Summary and Management Considerations

4.1 Archaeological Recommendations

Dudek's cultural resources inventory of the Project indicates that there is a low sensitivity of identifying intact subsurface cultural resources deposits during Project implementation. The SCIC records search and pedestrian survey did not identify any cultural resources within the Project area. While there is a standing shade structure (circa 1998) within the Project area, it is less than 45 years of age; therefore, there is no potential for the Project to directly impact built environment cultural resources. Additionally, the Project area is in a ravine below most of the adjacent, historic-age, single-family residences, which creates a visual separation between the Project area and surrounding development, and it is unlikely that a development on the Project area would result in indirect impacts to the setting of built environment cultural resources.

The review of the historic aerials reveals that all native topsoils that would have had the potential to contain cultural deposits have been removed from the Project area. The Project area has been entirely disturbed by ground-

disturbing activities related to the development of a reservoir, earthen dam, and the grading and development of a public elementary school. The geotechnical report prepared for the Project indicates that artificial fill is located to depths ranging between 2 to 25.5 feet below existing grade (GeoTek, Inc. 2022). No prehistoric or historic age resources will be present within the fill sediment.

No further archaeological efforts or mitigation, including archaeological monitoring, are recommended to be necessary in support of implementation of the Project. The following recommendations are suggested in the unlikely event that cultural resources or human remains are encountered during construction activities.

Unanticipated Discovery of Archaeological Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas, but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. In such an event, a data recovery plan should be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbing work can continue in the area of the find only after impacts to the resources have been mitigated and with City approval.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify the person or persons it believes to be the MLD from the deceased Native American. The MLD shall complete inspection within 48 hours of being granted access to the site and make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 619.949.3082 or kmontifolca@dudek.com.

Sincerely,

Keshia Montifolca, M.A., RPA
Archaeologist

Att.: *Figure 1, Project Location*
Figure 2, Project Area Map
Figure 3, Parking lot, view facing west
Figure 4, Developed and vegetated areas within Project area, view facing east
National Archaeological Database Information Sheet
Confidential Appendix A, SCIC Records Search Results
Appendix B, Tribal Correspondence
cc: *Angela Pham, Micah Hale, Dudek*

5 References

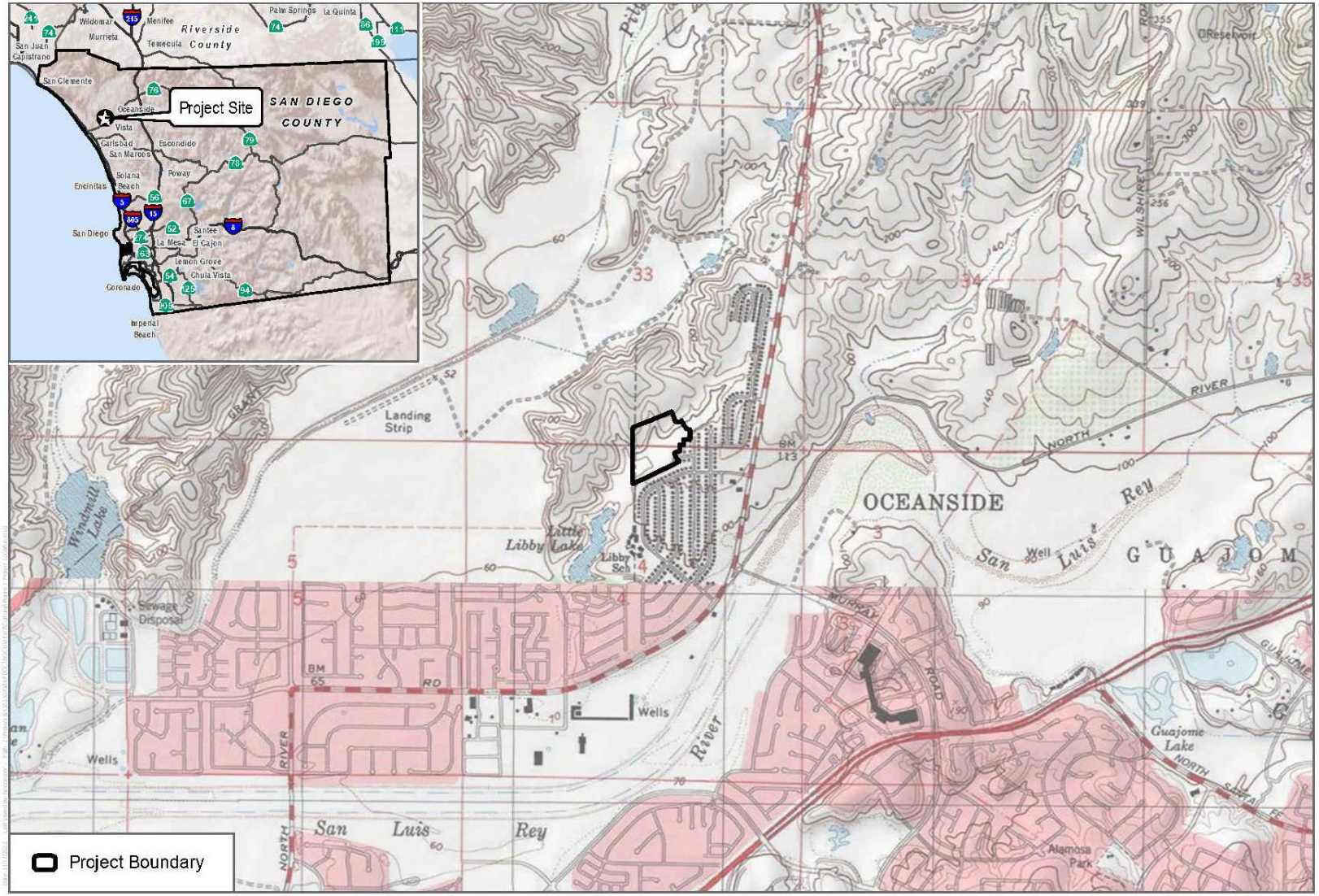
City of Oceanside 2017. *Municipal Code*. Chapter 14A. Historical Resources. Oceanside, CA.

GeoTek, Inc. 2022. Preliminary Geotechnical Evaluation Report, Proposed Pacific Elementary Re-Development, Assessor Parcel Numbers: 122-190-22-00, 122-190-19-00, 157070-42-00, Oceanside, California.

Murillo, Makayla, Angela Pham, Andrew Bursan, and Sarah Corder. 2021. Cultural Resources Due Diligence of the Pacifica Elementary Project, City of Oceanside, California.

NETR (Nationwide Environmental Title Research LLC). 2021a. Historic Aerial Photographs of Project Area, Oceanside, California dating from 1938, 1946, 1953, 1964, 1967, 1978, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1988, 1989, 1990, 1991, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2005, 2009, 2010, 2012, 2014, 2016, 2018. Accessed September 2022. https://www.historicaerials.com/viewer.

NETR. 2021b. Historical Topographical Maps of Project Area, Oceanside, California dating from 1942, 1944, 1949, 1960, 1961, 1964, 1969, 1995, 2012, 2015, and 2018. Accessed September 2022. https://www.historicaerials.com/viewer



SOURCE: USGS 7.5-Minute Series Morro Hill Quadrangle

DUDEK 0 1,000 2,000 Feet

FIGURE 1

Project Location

Pacifica Elementary Housing Development Project

SOURCE: SANGIS 2020

DUDEK 0 135 270 Feet

FIGURE 2
Project Site
Pacifica Elementary Housing Development Project

Figure 3. Parking lot, view facing west.

Figure 4. Developed and vegetated areas within Project area, view facing east.

National Archaeological Database (NADB) Information

Authors:	Keshia Montifolca M.A., RPA
Firm:	Dudek
Project Proponent:	City of Oceanside
Report Date:	December 2022
Report Title:	Negative Cultural Resources Inventory Report for the Pacifica Elementary Project, City of Oceanside, California
Type of Study:	Cultural Resources Inventory
Resources:	None
USGS Quads:	Morro Hill, California, Township 10 South, 11 South, Range 4 West, Sections 4 and 33
Acreage:	14.2
Permit Numbers:	N/A
Keywords:	Pedestrian Survey, Inventory, Negative, City of Oceanside, Pacific Elementary

Confidential Appendix A

SCIC Records Search Results

Appendix B
Tribal Correspondence

From: NAHC@NAHC <NAHC@nahc.ca.gov>
Sent: Friday, September 9, 2022 2:18 PM
To: Makayla Murillo
Cc: Torres-Fuentes, Pricilla@NAHC
Subject: RE: SLF Search for the Pacific Elementary Housing Project (13823)
Attachments: Pacifica Elementary (13823) Sacred Lands File.pdf

Hello,

Thank you for your message. We're in receipt of your request. We have recently hired new staff, and
this change in our office is creating some delays. We estimate a turn-around time of 6-8 weeks and don't
anticipate responding sooner than the end of that time frame. Please let us know if you have any
questions.

Kind regards,

Native American Heritage Commission
1550 Harbor Blvd. Suite 100
West Sacramento, CA 95691
(916) 373-3710

From: Makayla Murillo <mmurillo@dudek.com>
Sent: Friday, September 9, 2022 11:06 AM
To: NAHC@NAHC <NAHC@nahc.ca.gov>
Cc: Matthew DeCarlo <mdecarlo@dudek.com>; Angela Pham <apham@dudek.com>
Subject: SLF Search for the Pacific Elementary Housing Project (13823)

Dear NAHC Staff,

I would like to request an SLF search for the Pacifica Elementary Housing Project (13823). The project
area is located in Oceanside, California.

A project description and record search map are attached. Please let me know if you need any other
information.

Thanks,
Makayla Murillo
DUDEK
605 Third Street
Encinitas, California 92024
T:760.846.5874
www.dudek.com

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Pacifica Elementary Housing Development Project (13823)

County: San Diego County

USGS Quadrangle Name: 7.5-Minute Series Morro Hill Quadrangles

Township: 10S, 11S **Range:** 4W **Section(s):** 4, 33

Company/Firm/Agency: Dudek

Street Address: 605 Third Street

City: Encinitas **Zip:** 92024

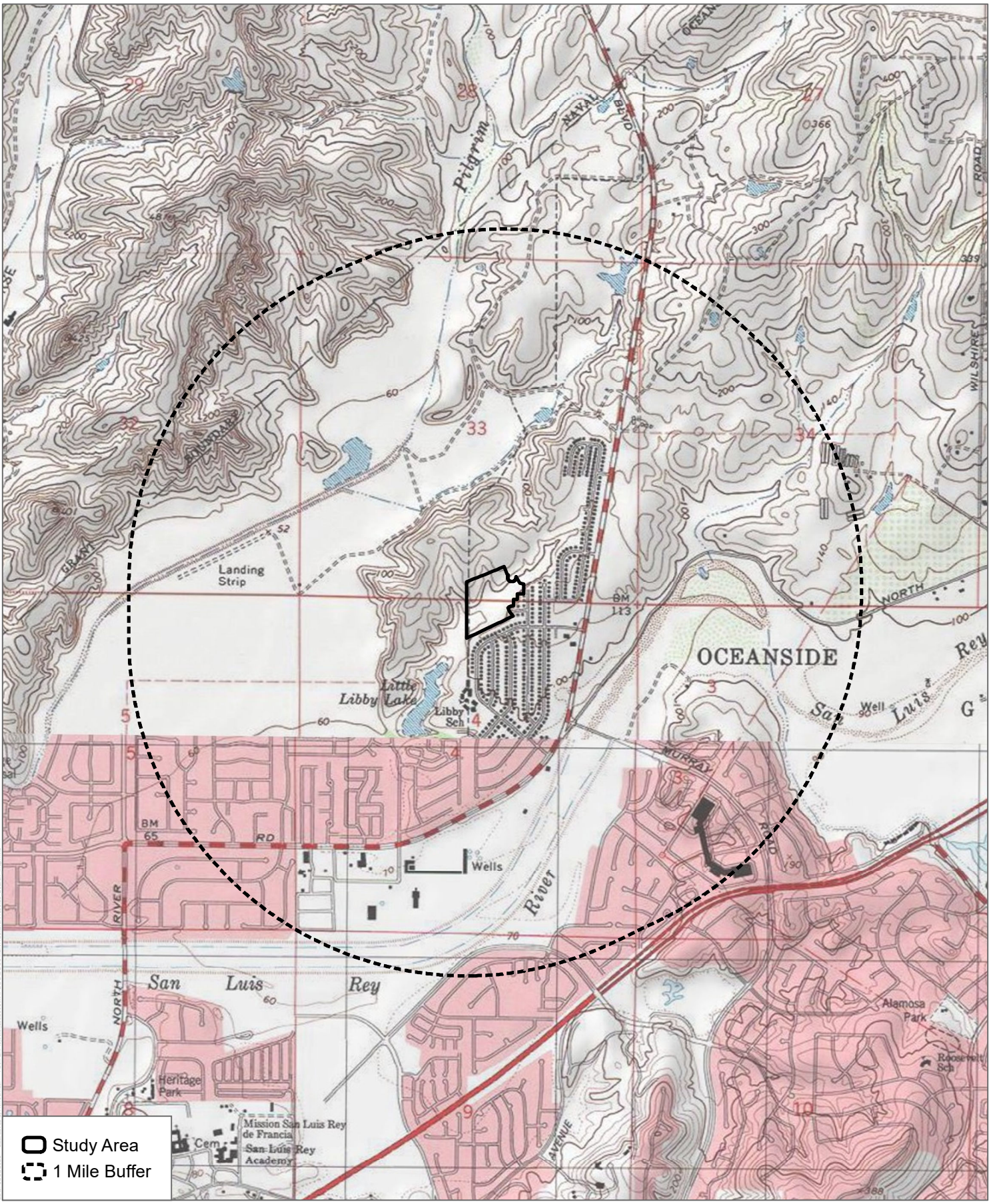
Phone: 760.479.4827

Fax: 760.632.0164

Email: mmurillo@dudek.com & apham@dudek.com

Project Description:

The proposed project would involve the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California. The property is approximately 14.2-acres.



SOURCE: USGS 7.5-Minute Series Morro Hill Quadrangles
Township 10S, 11S; Range 4W; Sections 4, 33

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

Records Search

Pacifica Elementary Housing Development Project

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
[VAVANT]

COMMISSIONER
[VACANT]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

November 8, 2022

Makayla Murillo
Dudek

Via Email to: mmurillo@dudek.com

Re: Pacifica Elementary Housing Development (13823) Project, San Diego County

Dear Ms. Murillo:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Diego County
11/8/2022

Barona Group of the Capitan Grande
Raymond Welch, Chairperson
1095 Barona Road Diegueno
Lakeside, CA, 92040
Phone: (619) 443 - 6612
Fax: (619) 443-0681
counciloffice@barona-nsn.gov

Campo Band of Diegueno Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1 Diegueno
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Robert Pinto, Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 368 - 4382
Fax: (619) 445-9126
ceo@ebki-nsn.gov

Ewiiaapaayp Band of Kumeyaay Indians
Michael Garcia, Vice Chairperson
4054 Willows Road Diegueno
Alpine, CA, 91901
Phone: (619) 933 - 2200
Fax: (619) 445-9126
michaelg@leaningrock.net

Iipay Nation of Santa Ysabel
Virgil Perez, Chairperson
P.O. Box 130 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 765 - 0845
Fax: (760) 765-0320

Iipay Nation of Santa Ysabel
Clint Linton, Director of Cultural Resources
P.O. Box 507 Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 803 - 5694
clint@redtailenvironmental.com

Inaja-Cosmit Band of Indians
Rebecca Osuna, Chairperson
2005 S. Escondido Blvd. Diegueno
Escondido, CA, 92025
Phone: (760) 737 - 7628
Fax: (760) 747-8568

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817
epinto@jiv-nsn.gov

Jamul Indian Village
Lisa Cumper, Tribal Historic Preservation Officer
P.O. Box 612 Diegueno
Jamul, CA, 91935
Phone: (619) 669 - 4855
lcumper@jiv-nsn.gov

Juaneno Band of Mission Indians Acjachemen Nation - Belardes
Matias Belardes, Chairperson
32161 Avenida Los Amigos Juaneno
San Juan Capisttrano, CA, 92675
Phone: (949) 293 - 8522
kaamalam@gmail.com

Juaneno Band of Mission Indians Acjachemen Nation - Belardes
Joyce Perry, Tribal Manager
4955 Paseo Segovia Juaneno
Irvine, CA, 92603
Phone: (949) 293 - 8522
kaamalam@gmail.com

Juaneno Band of Mission Indians Acjachemen Nation 84A
Heidi Lucero, Chairperson
31411-A La Matanza Street Juaneno
San Juan Capistrano, CA, 92675
Phone: (562) 879 - 2884
hllucero105@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Pacifica Elementary Housing Development (13823) Project, San Diego County.

Kwaaymii Laguna Band of Mission Indians
Carmen Lucas,
P.O. Box 775 — Kwaaymii
Pine Valley, CA, 91962 — Diegueno
Phone: (619) 709 - 4207

La Jolla Band of Luiseno Indians
Norma Contreras, Chairperson
22000 Highway 76 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 3771

La Posta Band of Diegueno Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road — Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

La Posta Band of Diegueno Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road — Diegueno
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302 — Diegueno
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

Mesa Grande Band of Diegueno Mission Indians
Michael Linton, Chairperson
P.O Box 270 — Diegueno
Santa Ysabel, CA, 92070
Phone: (760) 782 - 3818
Fax: (760) 782-9092
mesagrandeband@msn.com

Pala Band of Mission Indians
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Rd. — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3515
Fax: (760) 742-3189
sgaughen@palatribe.com

Pauma Band of Luiseno Indians
Temet Aguilar, Chairperson
P.O. Box 369 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422
bennaecalac@aol.com

Pechanga Band of Indians
Mark Macarro, Chairperson
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6000
Fax: (951) 695-1778
epreston@pechanga-nsn.gov

Pechanga Band of Indians
Paul Macarro, Cultural Resources Coordinator
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6306
Fax: (951) 506-9491
pmacarro@pechanga-nsn.gov

Rincon Band of Luiseno Indians
Cheryl Madrigal, Tribal Historic Preservation Officer
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 297 - 2635
crd@rincon-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Pacifica Elementary Housing Development (13823) Project, San Diego County.

Rincon Band of Luiseno Indians
Bo Mazzetti, Chairperson
One Government Center Lane — Luiseno
Valley Center, CA, 92082
Phone: (760) 749 - 1051
Fax: (760) 749-5144
bomazzetti@aol.com

San Luis Rey Band of Mission Indians
San Luis Rey, Tribal Council
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

San Luis Rey Band of Mission Indians
1889 Sunset Drive — Luiseno
Vista, CA, 92081
Phone: (760) 724 - 8505
Fax: (760) 724-2172
cjmojado@slrmissionindians.org

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

Sycuan Band of the Kumeyaay Nation
Cody Martinez, Chairperson
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation
Kristie Orosco, Kumeyaay Resource Specialist
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 6917

Viejas Band of Kumeyaay Indians
John Christman, Chairperson
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337

Viejas Band of Kumeyaay Indians
Ernest Pingleton, Tribal Historic Officer, Resource Management
1 Viejas Grade Road — Diegueno
Alpine, CA, 91901
Phone: (619) 659 - 2314
epingleton@viejas-nsn.gov

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Pacifica Elementary Housing Development (13823) Project, San Diego County.

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Tribal Council ,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Tribal Council,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

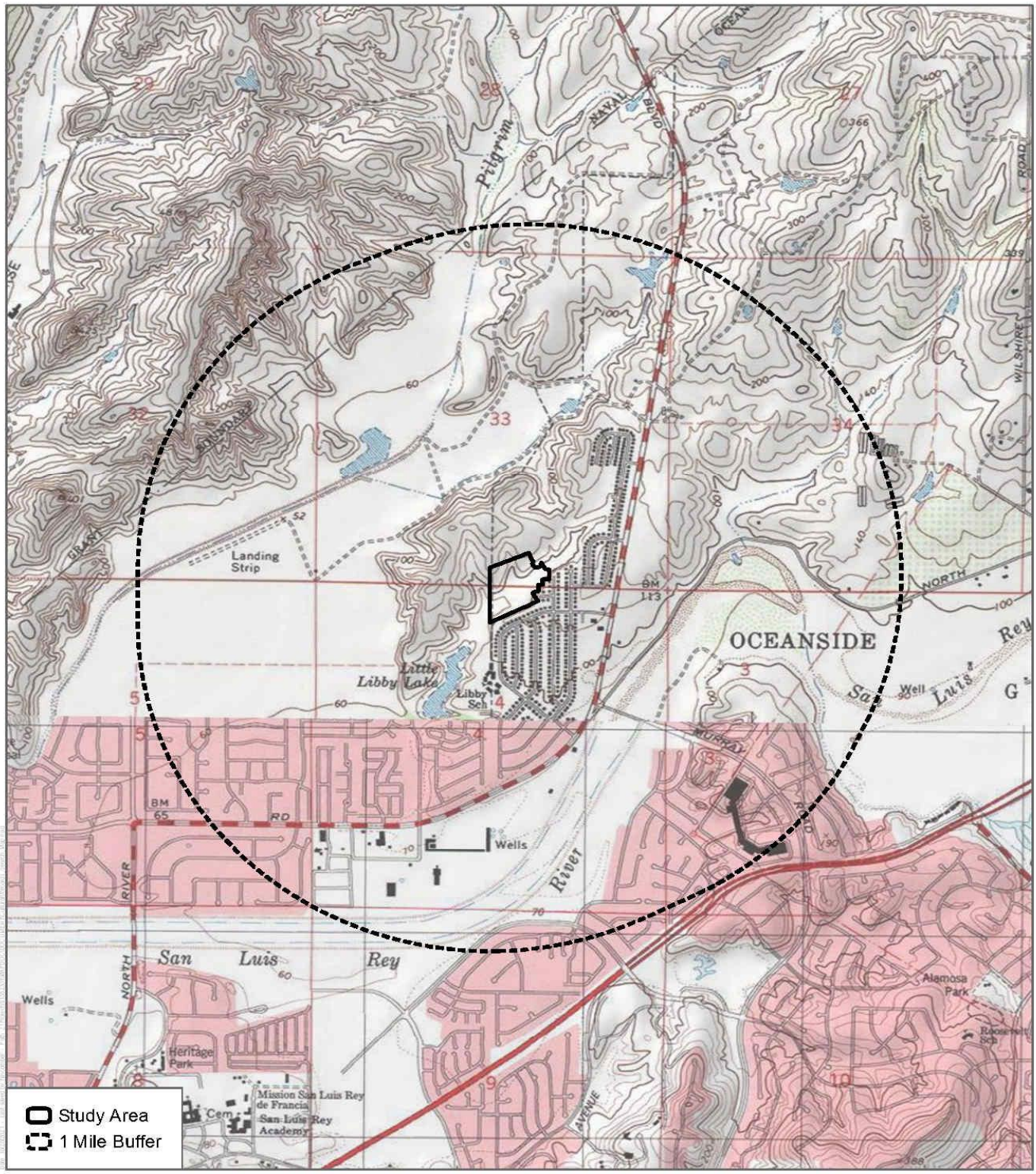
Please note that this letter does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. Tribes that wish to be notified of projects for the purposes of consultation must contact the lead agency, City of Oceanside in writing (pursuant to Public Resources Code Section 21080.3.1 (b)).

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*



SOURCE: USGS 7.5-Minute Series Morro Hill Quadrangles
Township 10S, 11S; Range 4W; Sections 4, 33

DUDEK

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1:24,000

Records Search
Pacifica Elementary Housing Development Project

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Cultural Department,
San Luis Rey Band of Mission Indians
1889 Sunset Dr.
Vista, CA 92081

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Cultural Department,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Temet Aguilar, Chairperson
Pauma & Yuima Reservation
P.O. Box 369
Pauma Valley, CA 92061

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Aguilar,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Respectfully,

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Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
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T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Mr. Matias Belardes, Chairperson
Juaneno Band of Mission Indians Acjachemen Nation
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Belardes,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

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November 28, 2022 13823

Mr. John Christman, Chairperson
Viejas Band of Kumeyaay Indians
1 Viejas Grade Rd.
Alpine, CA 91901

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Christman,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
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November 28, 2022 13823

Ms. Norma Contreras, Chairperson
La Jolla Band of Mission Indians
22000 Highway 76
Pauma Valley, CA 92061

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Contreras,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Ms. Lisa Cumper, THPO
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Cumper,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
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ENCINITAS, CALIFORNIA 92024
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November 28, 2022 13823

Mr. Michael Garcia, Vice Chairperson
Ewiiaapaayp Tribe
4054 Willows Road
Alpine, CA 91901

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Garcia,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Ms. Shasta Gaughen, Tribal Historic Preservation Officer
Pala Band of Mission Indians
35008 Pala Temecula Rd.
Pala, CA 92059

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Gaughen,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Mr. Ralph Goff, Chairperson
Campo Band of Diegueno Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Goff,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Mr. Michael Linton, Chairperson
Mesa Grande Band of Dieguneo Mission Indians
P.O. Box 270
Santa Ysabel, CA 92070

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Linton,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Mr. Clint Linton, Director of Cultural Resources
Ipay Nation of Santa Ysabel
P.O. Box 507
Santa Ysabel, CA 92070

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Linton,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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MAIN OFFICE
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ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Ms. Carmen Lucas,
Kwaaymii Laguna Band of Mission Indians
P.O. Box 775
Pine Valley, CA 91962

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Lucas,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

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If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Mr. Paul Macarro, Cultural Resources Manager
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Macarro,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Mark Macarro, Chairperson
Pechanga Band of Mission Indians
P.O. Box 1477
Temecula, CA 92593

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Macarro,

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November 28, 2022 13823

Ms. Cheryl Madrigal, Tribal Historic Preservation Officer
Rincon Band of Mission Indians
One Governement Center Lane
Valley Center, CA 92082

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Madrigal,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Cody Martinez, Chairperson
Sycuan Band of the Kumeyaay Nation
1 Kwaaypaay Court
El Cajon, CA 92019

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Martinez,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Bo Mazzetti, Chairperson
Rincon Band of Luiseño Indians
1 Government Center Lane
Valley Center, CA 92082

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Mazzetti,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Ms. Javaughn Miller, Tribal Administrator
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Miller,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Joseph Ontiveros, Cultural Resource Department
Soboba Band of Luiseno Indians
P.O. Box 487
San Jacinto, CA 92581

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Ontiveros,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Ms. Kristie Orosco, Resource Specialist
Sycuan Band of the Kumeyaay Nation
1 Kwaaypaay Court
El Cajon, CA 92019

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Orosco,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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Archaeologist
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November 28, 2022 13823

Ms. Rebecca Osuna, Chairperson
Inaja-Cosmit Band of Indians
2005 S. Escondido Blvd.
Escondido, CA 92025

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Osuna,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Ms. Gwendolyn Parada, Chairperson
La Posta Band of Diegueno Mission Indians
8 Crestwood Rd.
Boulevard, CA 91905

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Parada,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Virgil Perez, Chairperson
Iipay Nation of Santa Ysabel
P.O. Box 130
Santa Ysabel, CA 92070

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Perez,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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MAIN OFFICE
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November 28, 2022 13823

Ms. Joyce Perry, Representing Tribal Chairperson
Juaneno Band of Mission Indians Acjachemen Nation
4955 Paseo Segovia
Irvine, CA 92612

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Perry,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Ernest Pingleton, Tribal Historic Officer
Viejas Band of Kumeyaay Indians
1 Viejas Grade Rd.
Alpine, CA 91901

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Pingleton,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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November 28, 2022 13823

Mr. Robert Pinto, Chairperson
Ewiaapaayp Tribe
4054 Willow Rd.
Alpine, CA 91901

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Pinto,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

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T 800.450.1818 F 760.632.0164

November 28, 2022 13823

Ms. Erica Pinto, Chairperson
Jamul Indian Village
P.O. Box 612
Jamul, CA 91935

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Pinto,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

Please note that this letter does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. Tribes that wish to be notified of projects for the purposes of consultation must contact the lead agency, City of Oceanside in writing (pursuant to Public Resources Code Section 21080.3.1 (b)).

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
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November 28, 2022 13823

Ms. Heidi Lucero , Chairperson
Juaneno Band of Mission Indians Acjachemen Nation
31411-A La Matanza Street
San Juan Capistrano, CA 92675

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Rivera,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

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November 28, 2022 13823

Mr. Raymond Welch, Chairperson
Barona Group of the Capitan Grande
1095 Barona Road
Lakeside, CA 92040

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Romero,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

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If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

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DUDEK
Phone: (760) 846-5874
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Attachments: *Figure 1. Records Search Project Map.*

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November 28, 2022 13823

Ms. Angela Elliott Santos, Chairperson
Manzanita Band of Kumeyaay Nation
P.O. Box 1302
Boulevard, CA 91905

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Ms. Santos,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

Please note that this letter does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. Tribes that wish to be notified of projects for the purposes of consultation must contact the lead agency, City of Oceanside in writing (pursuant to Public Resources Code Section 21080.3.1 (b)).

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

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November 28, 2022 13823

Mr. Isaiah Vivanco, Chairperson
Soboba Band of Luiseno Indians
P.O. Box 487
San Jacinto, CA 92581

Subject: Information Request for the Pacifica Elementary Housing Development Project, Oceanside, San Diego County, California

Dear Mr. Vivanco,

The City of Oceanside is proposing construction for the Pacifica Elementary Housing Development Project (Project) which involves the demolition of the existing elementary school and development of 130-unit townhomes in the City of Oceanside, California (Figure 1). The Project comprises approximately 14.2 acres and is located at 4991 Macario Drive, Oceanside, California. This Project falls on Sections 4 and 33, Township 10 South, 11 South, Range 4 West of the Morro Hill, California U.S. Geological Survey (USGS) 7.5-minute Quadrangle.

As part of the cultural resources study prepared for the proposed Project, Dudek contacted the Native American Heritage Commission (NAHC) for a Sacred Lands file (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project area. The NAHC emailed a response on November 8, 2022, which stated that the SLF search did not identify the presence of Native American cultural resources in the immediate Project area. I am writing as part of the cultural inventory process in order find out if you, or your tribal community, have any knowledge of cultural resources or places that may be impacted by the proposed Project.

Please note that this letter does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. Tribes that wish to be notified of projects for the purposes of consultation must contact the lead agency, City of Oceanside in writing (pursuant to Public Resources Code Section 21080.3.1 (b)).

If you have any information or concerns pertaining to such information, please contact me by phone or email.

Respectfully,

Makayla Murillo, B.A.
Archaeologist
DUDEK
Phone: (760) 846-5874
Email: mmurillo@dudek.com

Attachments: *Figure 1. Records Search Project Map.*

Makayla,

This email is written on behalf of the Rincon Band of Luiseño Indians ("Rincon Band" or "Tribe"), a federally recognized Indian tribe and sovereign government in response to your request for information pertaining to cultural and tribal cultural resources on the above referenced project. The identified location is within the Traditional Use Area of the Luiseño people and is also within the Tribe's specific area of Historic interest. As such, the Rincon Band is traditionally and culturally affiliated to the project area.

After review of the provided documents and our internal information, the Rincon Band believes potential exists that the project will impact Tribal Cultural Resources (TCRs) or Traditional Cultural Properties (TCPs). The proposed project is in a culturally-sensitive area and the Tribe believes that the potential exists for cultural resources to be identified during further research and survey work. We recommend a pedestrian survey in presence of a Rincon Tribal monitor. Additionally, please forward a final copy of the cultural resources study upon completion to the Rincon Band.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749 1092 ext. 323 or via electronic mail at cmadrigal@rincon-nsn.gov. Thank you for the opportunity to protect our cultural assets.

Sincerely,

Cheryl

Cheryl Madrigal
Cultural Resources Manager
Tribal Historic Preservation Officer
Cultural Resources Department
Rincon Band of Luiseño Indians
1 West Tribal Road | Valley Center, CA 92082
Office: (760) 749 1092 ext. 323|Cell: 760-648-3000
Fax: 760-749-8901
Email: cmadrigal@rincon-nsn.gov

Rincon Band of Luiseño Indians
www.rincon-nsn.gov

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The Viejas Band of Kumeyaay Indians ("Viejas") has reviewed the proposed project and at this time we have determined that the project site has cultural significance or ties to Viejas. Cultural resources have been located within or adjacent to the APE-DE of the proposed project.

Viejas Band request that a Kumeyaay Cultural Monitor be on site for ground disturbing activities and to inform us of any new developments such as inadvertent discovery of cultural artifacts, cremation sites, or human remains.

If you wish to utilize Viejas cultural monitors (Viejas rate is $54.15/hr. plus GSA mileage), please call Ernest Pingleton at 619-655-0410 or email, epingleton@viejas-nsn.gov, for contracting and scheduling. Thank you.

If a Tribe, having a closer proximity to the Project, requests to perform cultural monitoring, Viejas will differ to them.

Ray Teran
Viejas Tribal Government
Resource Management Director
619-659-2312
rteran@viejas-nsn.gov

Appendix F

Preliminary Geotechnical Investigation

GEOTEK

PRELIMINARY GEOTECHNICAL EVALUATION REPORT
PROPOSED PACIFICA ELEMENTARY RE-DEVELOPMENT
ASSESSOR PARCEL NUMBERS:
122-190-22-00
122-190-19-00
157-070-42-00
OCEANSIDE, CALIFORNIA

PREPARED FOR

MLC HOLDINGS, INC.
5 Peters Canyon Road, Suite 310
Irvine, California 92606

PREPARED BY

GEOTEK, INC.
1384 POINSETTIA AVENUE, SUITE A
VISTA, CALIFORNIA 92081

PROJECT NO. 3743-SD **JANUARY 19, 2022**

GeoTek, Inc.
1384 Poinsettia Avenue, Suite A Vista, CA 92081-8505
(760) 599-0509 Office (760) 599-0593 Fax www.geotekusa.com

January 19, 2022
Project No. 3743-SD

MLC Holdings, Inc.
5 Peters Canyon, Suite 310
Irvine, CA 92606

Attention: Ms. Johanna Crooker

Subject: **Preliminary Geotechnical Evaluation Report**
Proposed Pacifica Elementary Re-Development
APN: 122-190-22-00, 122-190-19-00, and 157-070-42-00
Oceanside, California

Dear Ms. Crooker:

GeoTek, Inc. (GeoTek) is pleased to present the results of this preliminary geotechnical evaluation for the subject project located in the City of Oceanside, California. This report presents a discussion of GeoTek's field evaluation, analyses, and suitability of the site soils to support the proposed improvements. Based upon review, site development appears feasible from a geotechnical viewpoint provided that recommendations presented in this report are incorporated into the design and construction phases of the project.

We appreciate the opportunity to be of service on this project. Please contact the undersigned if you have any questions.

Respectfully submitted,
GeoTek, Inc.

Christopher D. Livesey
CEG 2733, Exp. 05/31/23
Associate Vice President

Gaby M. Bogdanoff
GE 3133, Exp. 06/30/22
Project Engineer

Distribution: (1) Addressee

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Figure 2a – Geotechnical Map (Aerial Base Map)
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Appendix A – Logs of Exploratory Borings
Appendix B – Percolation and Infiltration Data
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Appendix D – Slope Stability Analyses
Appendix E – Liquefaction and Static Settlement Analyses
Appendix F – General Grading Guidelines

1. PURPOSE AND SCOPE OF SERVICES

The purpose of this geotechnical evaluation is to provide recommendations for site development in consideration of the proposed site plans. Services provided included the following:

- Research and review of available geologic information pertinent to the property.
- Drilled, sampled, and logged thirteen (13) exploratory borings. Representative bulk samples and relatively undisturbed samples were obtained for laboratory testing. One cone penetration test (CPT) sounding was also performed.
- Drilled two (2) borings for percolation testing and infiltration analysis via the Porchet method.
- Geotechnical analyses and evaluation of site seismicity.
- Liquefaction and static settlement analyses.
- Preliminary recommendations for site development.

The intent of this report is to aid in the evaluation of the site for future development from a geotechnical engineering perspective. The professional opinions and geotechnical information contained in this report may need to be updated based on future review of final site development plans. These should be provided to GeoTek for review when available.

2. SITE DESCRIPTION AND PROPOSED DEVELOPMENT

2.1 SITE DESCRIPTION AND HISTORY

The subject site is located west of 4991 Macario Drive in the city of Oceanside, California (see Figure-1, Site Location Map). The site is an irregular shaped property approximately 14.2 acres and encompasses County of San Diego assessor parcel numbers (APN) 122-190-22-00, 122-190-19-00, and 157-070-42-00. The site is bounded by an approximate 30-foot-high ascending slopes and residential properties to the north and south; a sewer lift station, Macario Drive, and single-family dwellings to the east; and an approximate 25-foot descending slope followed by vacant land and Libby Lake to the west. Overall topography of the site has been graded as a building pad has

a gentle fall across the pad of about 3 to 5 feet to the west-southwest. Surface drainage is to the west-southwest, with some local variations.

The site previously was developed and operated as Pacifica elementary school. The eastern and central portions of the site were previously occupied by various buildings which have been demolished, however foundations still appear to be present. The property also contains paved areas, and existing landscape.

Review of site topographic maps indicates that the site previously resided within an alluvial canyon. An earthen dam was constructed within the site to facilitate a water reservoir until the site was infilled to construct a relatively flat earthen pad for the construction of Pacifica elementary school. The following is a general timeline of pertinent historic geotechnical events regarding the site.

1938: The site appeared to be in a natural state as a broad canyon drainage. Some agricultural fields can be seen to the south.
1946: A large reservoir retained by an earthen dam covered a majority of the site.
1953: The reservoir remains, however has reduced significantly in storage volume.
1964: The reservoir remains, however has reduced further in storage volume.
1967: The reservoir appears to have been drained and a braided alluvial fan can be observed.
1978: The graded pad is completed and the initial building has been constructed.
1980 to Present: the grades generally remain the same.

The site is located in an area geologically mapped by others to be underlain by young to older alluvial deposits and bedrock of the Santiago Formation (Kennedy, M.P. et. Al., 2007).

2.2 PROPOSED DEVELOPMENT

Based upon discussions with the design team, it is our understanding that the project will consist of the construction of twenty five, two-story, multi-family townhomes arranged as 3, 5, and 6-plexes. The structures are anticipated to be composed of wood-framed construction and utilize post-tensioned slabs. Planned development includes 130 residential units, 325 parking spaces, 6' front patios for each home unit, multiple open spaces for specific amenities such as tennis courts and tot lots, retaining walls, an EVA/Secondary access road, and interior street and utility improvements. Average cuts and fills averaging 3 to 4 feet are estimated to be required to reach design grades. The majority of taller cuts are localized and up to twelve feet tall. There are also localized taller fills for a proposed extension of Malaga Drive into the site as an emergency pathway.

3. FIELD EXPLORATION

3.1 FIELD EXPLORATION

Exploratory borings were advanced with a dual purposed, rubber-tire truck mounted CME-75 hollow-stem auger, equipped with optional CPT equipment, drill rig. On October 5, 2021, five (5) borings and one (1) CPT sounding were performed on the site. On November 4th, 2021 an additional eight (8) exploratory borings were performed. The explorations were advanced to depths ranging between 5 and 46.5 feet below the existing ground surface. The approximate locations of these explorations are shown on the Geotechnical Map, Figure 2a and Figure 2b. A geologist from GeoTek observed and logged the explorations, as well as obtained loose and relatively undisturbed samples that were transported to GeoTek's offices. Geotechnical logs of the explorations are included in Appendix A.

Standard penetration tests (SPT) were performed with a 2.0-inch outside diameter split-barrel sampler with a length of 18 inches. The inside diameter of the sampler shoe was 1.4 inches. The SPT sampler was unlined and conformed to the requirements of ASTM D 1586. The SPT sampler is machined to fit liners. The standard penetration test data are presented on the boring logs.

Relatively undisturbed soil samples were recovered at various depths/intervals in the geotechnical borings with a California sampler. The California sampler is a 3-inch outside diameter, 2.4-inch inside diameter, split barrel sampler lined with brass rings. The sampler was 18 inches long. The sampler conformed to the requirements of ASTM D 3550.

Additionally, large bulk samples were taken from the exploratory boring cuttings. Representative samples obtained during the field exploration, were returned to the laboratory for testing and evaluation.

The CPT sounding was advanced to a depth of approximately 67.5 feet below existing grades. The approximate locations of the explorations are shown on Figure 2a and Figure 2b. CPT soundings measure the tip and frictional resistance at near continuous intervals as an instrumented probe is advanced through the soil profile with a cone area ratio of 0.84.

3.2 PERCOLATION TESTING AND INFILTRATION ANALYSIS

Two percolation test borings and infiltration analyses were performed on site in two (2) locations (P-1 and P-2). The testing was conducted at an approximate boring depth of 60 inches at each location. The percolation test rate was converted to an infiltration rate via the Porchet method.

Results of our infiltration analyses are presented below. Copies of the infiltration conversion sheets and Table D.1-1 are included in Appendix B.

Boring	Depth (inches)	Infiltration Rate (inches per hour)*
P-1	60	0.24
P-2	60	0.06

* Rate was converted to an infiltration rate via the Porchet method

Factors of Safety have not been applied.

3.3 LABORATORY ANALYSES

Laboratory testing was performed on soil samples collected during the field exploration. The purpose of the laboratory testing was to evaluate the physical and chemical soil properties for use in engineering design and analysis. Results of the laboratory testing program, along with a brief description and relevant information regarding testing procedures, are included in Appendix C.

4. GEOLOGIC AND SOILS CONDITIONS

4.1 REGIONAL GEOLOGIC SETTING

The property is situated in the Peninsular Ranges geomorphic province. The Peninsular Ranges province is one of the largest geomorphic units in western North America. It extends approximately 975 miles from the north and northeasterly adjacent to the Transverse Range geomorphic province to the tip of Baja California. This province varies in width from about 30 to 100 miles. It is bounded on the north by the Transverse Ranges, west by the Pacific Ocean, on the south by the Gulf of California and on the east by the Colorado Desert Province.

4.2 GENERAL SOIL CONDITIONS

A brief description of the earth materials encountered during the subsurface explorations are presented in the following section. Based on review of the explorations, available geologic maps and technical literature and our site specific evaluation, the site is underlain by artificial fill, quaternary-age alluvium, and tertiary-age Santiago Formation sedimentary bedrock.

4.2.1 Artificial Fill (Af)

Artificial fill soils were encountered in each of GeoTek's test borings. These soils were found to consist of silty fine to coarse sands with occasional clayey sands (SM/SC soil type based upon the Unified Soil Classification System), ranging from yellow brown to dark brown in color with various other heterogeneous inclusions, dry to moist, and loose to medium dense. Artificial fill was encountered to depths ranging between 2 to 25.5 feet below existing grade with the average depth across all the borings being roughly 10 to 15 feet deep. A request for all geotechnically related documents regarding the site history was performed on be-half of GeoTek to the School District. The request did not return any information.

4.2.2 Quaternary Alluvium (Qal)

Alluvial soils were encountered in six (6) of GeoTek's test borings (B-1, B-3, B-6, B-7, B-12, and B-13) to depths ranging between 11 to 46.5 feet below existing grades with the average depth being roughly 13 to 21.5 feet deep. These soils consisted of various concentrations of silty sands, and clayey sands and were found to be various grey-blacks and browns in color, slightly moist to saturated, silty fine to coarse grained sands. The soil behavior type of the CPT sounding is interpreted to be variations of clays and silts. Moisture was noted to increase with depth and became saturated near a groundwater table located approximately 45 feet below existing grades in Boring B-1. Some of the alluvium contained roots that brought an organic odor with them.

4.2.3 Tertiary Santiago Formation (Tsa)

Tertiary-age Santiago Formation (sedimentary bedrock) was encountered in eight (8) of GeoTek's test borings (B-2, B-3, B-4, B-5, B-8, B-9, B-10, and B-11) Santiago Formation was encountered at depths between 2 to 26.5 feet below existing grades. The sedimentary bedrock has also been mapped to underlie the subject property on a regional geologic map reviewed for the area (Kennedy and Tan, 2007). The TSantiago Formation is regionally described to consist of medium to coarse grained, moderately well indurated, massive and broadly cross bedded sandstone. The sedimentary formation as encountered at the site was a yellow to light brown, fine to coarse sandstone with orange oxidation. The weathered bedrock varied in moisture (dry to very moist) depending on the boring location and was found to be dense to very dense.

4.3 SURFACE WATER AND GROUNDWATER

4.3.1 Surface Water

Surface water was not observed during the recent exploration. If encountered during earthwork operations, surface water on this site is the likely result of precipitation, irrigation, or possibly some minor surface run-off from immediately surrounding properties. Overall, the site drainage is directed toward the west to southwest with localized variations.

4.3.2 Groundwater

Groundwater was encountered in one of GeoTek's explorations, B-1, at a depth of 45 feet below existing grades. Due to the absence of groundwater in the rest of the borings and the apparent depth of the encountered groundwater, groundwater is not anticipated to be a factor in the proposed construction.

4.4 FAULTING AND SEISMICITY

The geologic structure of the entire southern California area is dominated mainly by northwest-southeast oriented fault blocks. Several major fault zones are found in this province. The site is in a seismically active region. The Elsinore Fault zone and the San Jacinto Fault zone trend northwest-southeast and are found near the middle of the province. The San Andreas Fault zone borders the northeasterly margin of the province. No active or potentially active fault is known to exist at this site nor is the site situated within an *"Alquist-Priolo"* Earthquake Fault Zone or a Special Studies Zone (Bryant and Hart, 2007; CGS, 1980). The nearest known active fault to the project site is the Rose Canyon-Newport-Inglewood fault (offshore), which is located approximately 9 miles to the southwest of the property. A potential earthquake with a magnitude (MCE) of up to 6.9 may result from this fault. These faults identified on geologic maps are readily available and reviewed by this firm for the immediate study area.

4.4.1 Seismic Design Parameters

The site is located at approximately 33.2562 Latitude and -117.3040 Longitude. Site spectral accelerations (Ss and S1), for 0.2 and 1.0 second periods for a risk targeted two (2) percent probability of exceedance in 50 years (MCER) were determined using the web interface provided by SEAOC/OSHPD (https://seismicmaps.org) to access the USGS Seismic Design Parameters. Using the ASCE 7-16 option on the SEAOC/OSHPD website results in the values for SM1 and SD1 reported as "null-See Section 11.4.8" (of ASCE 7-16). As noted in ASCE 7-16, Section 11.4.8, a site-specific ground motion procedure is recommended for Site Class D when the value S1 exceeds 0.2. The value S1 for the subject site exceeds 0.2.

For a site Class D, an exception to performing a site-specific ground motion analysis is allowed in ASCE 7-16 where S1 exceeds 0.2 provided the value of the seismic response coefficient, Cs, is conservatively calculated by Eq 12.8-2 of ASCE 7-16 for values of $T \leq 1.5T_s$ and taken as equal to 1.5 times the value computed in accordance with either Eq. 12.8-3 for $T_L \geq T > 1.5T_s$ or Eq. 12.8-4 for $T > T_L$. Based on the explorations performed at this site, the reviewed geologic map, and planned grading activities, the site structural improvements will be underlain by engineered fill, alluvium, and bedrock. For these soil conditions, a Site Class D is considered appropriate.

Assuming that the Cs value calculated by and used by the structural engineer allows for the exclusion per ASCE 7-16, noted above, then a site-specific ground motion analysis is not required. For this assumption and condition, the following seismic design parameters, based on the 2015 National Earthquake Hazards Reduction Program (NEHRP), are presented on the following table:

SITE SEISMIC PARAMETERS	
Mapped 0.2 sec Period Spectral Acceleration, Ss	0.923g
Mapped 1.0 sec Period Spectral Acceleration, S1	0.342g
Site Coefficient for Site Class "D," Fa	1.131
Site Coefficient for Site Class "D," Fv	1.958
Maximum Considered Earthquake Spectral Response Acceleration for 0.2 Second, SMS	1.044g
Maximum Considered Earthquake Spectral Response Acceleration for 1.0 Second, SM1	0.67g
5% Damped Design Spectral Response Acceleration Parameter at 0.2 Second, SDS	0.696g
5% Damped Design Spectral Response Acceleration Parameter at 1 second, SD1	0.446g
PGA_M	0.479g
Seismic Design Category	D

Final selection of the appropriate seismic design coefficients should be made by the project structural engineer based upon the local practices and ordinances, expected building response and desired level of conservatism. Should it be determined that the exclusion as outlined in ASCE 7-16 is not appropriate for this site, then a site-specific ground motion analysis will be necessary.

4.4.2 Liquefaction/Seismic Settlement

Liquefaction describes a phenomenon in which cyclic stresses, produced by earthquake-induced ground motion, create excess pore pressures in relatively cohesionless soils. These soils may thereby acquire a high degree of mobility, which can lead to lateral movement, sliding, settlement of loose sediments, sand boils and other damaging deformations. This phenomenon occurs only below the water table, but, after liquefaction has developed, the effects can propagate upward into overlying non-saturated soil as excess pore water dissipates.

Utilizing the results of the CPT-1 sounding, GeoTek evaluated the liquefaction potential of the on-site soils using the computer program *Cliq Version 3.3.1.14*. For this analysis, the computer software program utilized an estimated high-water depth of 40 feet, a ground acceleration of 0.48g (PGA_M) and a mean earthquake event of 6.57. The ground acceleration and earthquake magnitude were obtained from the USGS websites. The results of this analysis indicated that the soils below the estimated high-water depth of 40 feet are not potentially susceptible to liquefaction during a seismic event. The following table summarizes the amount of total settlement (liquefaction settlement plus settlement of dry sands) estimated at the referenced location:

ESTIMATED SEISMICALLY INDUCED TOTAL SETTLEMENT	
CPT Sounding	Total Settlement (inches)
CPT-1	0.00

*Sounding terminated at about 67.5 feet

As noted above, no seismically induced settlement is estimated for the subject property. The results of the liquefaction and seismic settlement analyses are presented within Appendix E.

4.5 STATIC SETTLEMENT ANALYSES

Static settlement of the alluvial soils below proposed improvements may occur as a result of the loads imposed by changes in pad grade and building loads. Due to the relatively high moisture content of the soil and fine-grained consistency, hydro consolidation due to the introduction of water into the fills and alluvial deposits is not considered likely.

Settlement estimates were calculated using the CPT data and the computer program CPeT-IT version 3.0.2.1 by Geologismiki. More specifically, CPT data was used to calculate the constrained modulus for each depth increment in the tested soil column. Constrained modulus is then used in combination with the anticipated stress increase due to planned improvements to quantify a settlement quantity for each depth increment. Settlements are summed over the entire data range to provide an estimated settlement at the existing surface. For CPT-1, the calculation was conducted assuming a large post-tensioned foundation with an embedment of 1 foot into existing soils (modeled as a 0.75 tsf foundation load), consistent with the proposed improvements. The results are tabulated below and are presented in Appendix D:

CPT NUMBER	POTENTIAL STATIC SETTLEMENT (in.)
CPT-1	≈ 1

Based on the above estimates, static total settlement for the proposed structures should be considered to be one inch with a differential settlement of one-half inch over 40 feet. The actual magnitude of settlement is dependent upon actual subsurface conditions, planned grade changes, foundation loads, and may vary from that anticipated.

4.6 GLOBAL SLOPE STABILITY ANALYSES

Direct shear test results, experience, and judgement were used in selecting shear strengths. GeoTek performed laboratory direct shear testing on one remolded soil sample collected during our field exploration. The result of the test is presented in Appendix B. The existing ascending fill slopes were observed to be consistent with the fill soils observed during test borings and

laboratory testing. In addition, the ascending slopes exposing Santiago formation was observed to be visually consistent and in some areas exposed silty medium to coarse grained sandstones with occasional small rounded gravels. Remolded shear strength testing results of bedrock materials have lower strength than undisturbed parent material that does not exhibit adverse geologic structure or joint/fractures. Therefore, utilizing the remolded shear strength of the fill, is considered a conservative approach. Observation of the slopes exposing Santiago formation was performed by a certified engineering geologist and found to be absent of geologic structure. As such, evaluating the Santiago Formation as isotropic is considered in our analyses.

Three slope stability sections were performed to analyze the existing and proposed improvements. The sections were selected to represent three different geotechnical conditions:

- Section AA: Represents the existing fill slope, located in the western end of the site.
- Section BB: Represents the offsite ascending fill slope along the north of the site retained by a proposed ten foot tall wall.
- Section CC: Represents the offsite ascending fill slope along the north of the site retained by a proposed ten foot tall wall.

In general, the results of the stability analyses indicated factors of safety for a static condition to be 1.5 or greater and for a pseudo-static condition to be 1.1 or greater. Sections BB and CC were performed to be preliminary proofs of concept for the design of retaining walls. Where a factor of safety of less than acceptable resulted (1.5 for static and 1.1 for psuedo-static), a wedge of high strength backfill was applied to the active zone behind the retaining wall. A summary of slope stability is presented in Appendix E. After retaining wall designs have been prepared, our office should be contacted to re-evaluate the global slope stability.

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 GENERAL

Considering the history of the site, borings were planned to advance in the anticipated location of the earthen reservoir damn, behind the damn, fill placed for the building pad, and in the alluvial soils. These areas were explored with the intent of evaluating their consistency.

The location of a remnant earthen reservoir could not be identified based on our geotechnical borings. It is our opinion that the earthen dam was constructed with effort, based on the purpose

of the design. If the earthen dam remains in place, further evaluation during remedial grading will determine the need for additional recommendations.

Our exploration program also was performed to provide coverage across the site to evaluate the existing fills and alluvial soils. Consolidation data and moisture density data was obtained throughout the fills. The moisture-density data of the fill was compared to the alluvial data. Based on the blow count data obtained during drilling, the consistency of the fills deeper than 10 feet was relatively consistent with the alluvial soils. Considering the alluvial soils have been surcharged with eleven to twenty feet of fills over a period of 46 to 53 years, the primary settlement has been considered to be complete with negligible secondary settlements anticipated to remain. This also serves as a basis for concluding that the building pad fills deeper than ten feet are generally consistent with the alluvial soils based on blow counts.

The anticipated site development appears feasible from a geotechnical viewpoint provided that the following recommendations, and any subsequent recommendations provided by this firm at a later date, are incorporated into the design and construction phases of development.

5.2 EARTHWORK CONSIDERATIONS

5.2.1 General

Earthwork and grading should be performed in accordance with the applicable grading ordinances of the City of Oceanside, the 2019 California Building Code (CBC), and recommendations contained in this report. The Grading Guidelines included in Appendix F outline general procedures and do not anticipate all site-specific situations. In the event of conflict, the recommendations presented in the text of this report supersede those contained in Appendix F.

5.2.2 Site Clearing and Preparation

In areas of planned grading and improvements, the site should be cleared of existing structures and foundations, vegetation and other deleterious materials and properly disposed off-site. Concrete may be incorporated into fills provided the concrete is processed to remove the reinforcement bar (if present) and incorporated as general fill provided placement of oversized material is in accordance to the general guidelines presented in Appendix F. The concrete should be placed in designated areas, preferably outside building pads. Similarly, existing asphalt and aggregate base may be incorporated into the subbase of proposed interior streets, provided the asphalt is processed into ¾-inch maximum aggregate. Voids resulting from site clearing should be replaced with engineered fill after remedial removals/over-excavations have occurred. Existing underground improvements and utilities not to remain is service should also be removed as part of site development operations. It should be noted that an existing 8 inch vitrified clay pipe (VCP) and 24 inch storm drain underground utility underlies the site. If the utility extends offsite, the

utility should be sealed water tight. Alternatively, the utility may be infilled with a low controlled strength material, such as sand-cement slurry consisting of two 94lb bags of cement for each yard of sand slurry.

5.2.3 Remedial Grading (Removals)

Based on the consolidation and moisture-density test results in the upper 10 feet, it is recommended that the upper 10 feet of existing fills should be removed below all areas to receive improvements and engineered fill. The depth of removals should be below existing grades or rough grades, whichever is deeper. Where sedimentary bedrock is encountered, the removal may be reduced to meet overexcavation recommendations. Removal bottoms exposing fills tested to at least 90% relative to ASTM D1557 test procedures is an acceptable bottom to receive engineered fills.

5.2.4 Horizontal Extent of Removals

The horizontal limits of removals should extend to the property line or ascending slope. Where existing fills daylight into ascending slopes, a temporary slope may be projected into the site at a maximum inclination of 1:1 (horizontal:vertical). Where removals are performed for proposed retaining walls supporting existing ascending slopes, the extent of the lateral removal can be terminated at the proposed wall foundation, provided the wall foundation is bearing into competent Santiago Formation or fills.

5.2.5 Preparation of Excavation Bottoms

A representative of this firm should observe the bottom of all excavations. Upon approval, the exposed soils and all soils in areas to receive engineered fill should be scarified to a depth of approximately eight (8) inches, moistened to at least the optimum moisture content and compacted to a minimum relative compaction of 90 percent (ASTM D 1557).

5.2.6 Engineered Fill

The on-site soils are generally considered suitable for reuse as engineered fill provided they are free from vegetation, debris, other deleterious material, and rock no larger than six inches. Engineered fill should be placed in loose lifts with a thickness of eight (8) inches or less, moisture conditioned to at least two percent above the optimum moisture content and compacted to a minimum relative compaction of 90 percent (ASTM D-1557).

5.2.7 Cut/Fill Building Pad Overexcavation

Site grading may result in portions of a building pad exposing Santiago Formation and engineered fills across the building pad. This condition creates a cut/fill transition. Whenever a cut/fill transition occurs, the cut portion of the pad should be over-excavated a minimum of three feet and replaced with engineered fill.

In pavement areas, removals should extend at least two feet below finish grade, or one foot below finished subgrade, whichever is lower.

5.2.8 Excavation Characteristics

Excavations in the fills and Santiago Formation should be accomplished with medium to heavy-duty earthmoving or excavating equipment in good operating condition.

5.2.9 Shrinkage and Bulking

Several factors will impact earthwork balancing on the site, including artificial fills to be remedially graded and bedrock bulking, trench spoils from utilities and footing excavations, as well as the accuracy of topography.

Shrinkage and bulking are largely dependent upon the degree of compactive effort achieved during construction relative to the pre-construction relative compaction. For planning purposes, a shrinkage factor ranging from 0 to 7 percent may be considered for undocumented fill materials requiring removal and re-compaction. A shrinkage factor of 5 percent may be considered for fill materials requiring removal and re-compaction. For bedrock material, a bulking factor should consider 10 percent.

5.3 DESIGN RECOMMENDATIONS

5.3.1 Stormwater Infiltration

Many factors control infiltration of surface waters into the subsurface, such as consistency of native soils and bedrock, geologic structure, fill consistency, material density differences, and existing groundwater conditions. Due to the location of the proposed stormwater BMP basin in close proximity to existing descending slope, collection of surface waters in this area should be designed with as a filtration basin constructed with an impermeable liner along the sidewalls and bottom.

5.3.2 Foundation Recommendations

Foundation design criteria for a post-tensioned foundation system, in general conformance with the 2019 CBC, are presented below. Following site grading, the site soils are anticipated as having a "low" ($21 \leq EI \leq 50$) to "medium" ($51 \leq EI \leq 90$) expansion potential in accordance with ASTM D 4829. These are minimal recommendations and are not intended to supersede the design by the project structural engineer.

The post-tensioned slabs for the proposed structures should bear entirely in engineered fill soils.

Presented below are post-tension foundation design parameters for the proposed residential structures derived in general conformance with *Design of Post-Tension Slabs-on-Ground, Third Edition* (PTI, 2004) and *Addendum No. 1 to the 3rd Edition of the Design of Post-Tension Slabs-on-Ground* (PTI, 2007). Post-tensioned slabs should be designed in accordance with the 2019 CBC and PTI design methodology.

DESIGN PARAMETERS FOR POST-TENSIONED SLABS		
Foundation Design Parameter	Design Value	
	"Low" Expansive Soils 21≤EI≤50	"Medium" Expansive Soils 51≤EI≤90
Edge Moisture Variation Distance, e_m - Edge Lift (swelling) - Center Lift (shrinkage)	 5.2 ft 9.0 ft	 5.1 ft 9.0 ft
Soil Differential Movement, y_m - Edge Lift (swelling) - Center Lift (shrinkage)	 ≈0.45 in ≈0.20 in	 ≈0.51 in ≈0.22 in
Ext. Perimeter Beam Embedment	12 inches*	18 inches*
Presaturation of Subgrade Soil (Percent of Optimum)	Minimum 110% to a depth of 12 inches	Minimum 120% to a depth of 12 inches

* Required depth of perimeter beam/stiffening rib per structural calculations may govern.
The following assumptions were used to generate e_m and y_m values: Thornthwaite Moisture Index = -20; constant suction value = 3.9pF; post-equilibrium case assumed with wet (swelling) cycle going from 3.9pF to 3.0pF and drying (shrinking) cycle going from 3.9pF to 4.5pF.

We recommend that an allowable soil bearing pressure of 1,500 psf for the design of the post-tensioned systems. This recommended allowable soil bearing pressure maybe increased by one-third for temporary seismic or wind loading.

Based on experience in the area, structural foundations may be designed in accordance with the 2019 CBC to withstand a total settlement of about 1 inch and maximum differential settlement of one-half of the total settlement over a horizontal distance of 40 feet.

The passive earth pressure may be computed as an equivalent fluid having a density of 250 psf per foot of depth, to a maximum earth pressure of 2,500 psf for footings founded on engineered fill. A coefficient of friction between soil and concrete of 0.35 may be used with dead load forces. passive pressure and frictional resistance can be combined without reduction.

A grade beam, should be utilized across large entrances. The base of the grade beam should be at the same elevation as the bottom of the adjoining footings.

5.3.3 Foundation Setbacks

Minimum setbacks for all foundations should comply with the 2019 CBC or City of Oceanside requirements, whichever is more stringent. Improvements not conforming to these setbacks are subject to the increased likelihood of excessive lateral movement and/or differential settlement. If large enough, these movements can compromise the integrity of the improvements.

- The outside bottom edge of all footings should be set back a minimum of H/3 (where H is the slope height) from the face of any descending slope. The setback should be at least seven feet and need not exceed 40 feet.

- The bottom of any proposed foundations should be deepened so as to extend below a 1:1 upward projection from the bottom edge of the nearest excavation and the bottom edge of the closest footing.

5.3.4 Miscellaneous Foundation Recommendations

To minimize moisture penetration beneath the slab-on-grade areas, utility trenches should be backfilled with engineered fill, lean concrete or concrete slurry where they intercept the perimeter footing or thickened slab edge.

Soils from the footing excavations should not be placed in the slab-on-grade areas unless properly compacted and tested. The excavations should be free of loose/sloughed materials and be neatly trimmed at the time of concrete placement.

5.3.5 Moisture and Vapor Retarding System

A moisture and vapor retarding system should be placed below slabs-on-grade where moisture migration through the slab is undesirable. As a minimum, the capillary break and moisture retarder should be in conformance with the 2019 CBC Section 1910.1 or, if adopted by the local agency, the current California Green Building Standards Code (CALGreen) Section 4.505.2.

It should be realized that the effectiveness of the vapor retarding membrane can be adversely impacted as the result of construction related punctures (e.g. stake penetrations, tears, punctures from walking on the aggregate layer, etc.). These occurrences should be limited as much as possible during construction. Thicker membranes are generally more puncture resistant than thinner ones. Products specifically designed for use as moisture/vapor retarders may also be more puncture resistant. It is GeoTek's opinion that a minimum 10 mil thick membrane with

joints properly overlapped and sealed should be used. Although, thinner specifically design retarder may be acceptable.

Moisture and vapor retarding systems constructed in compliance with Code minimums provide a certain level of resistance to vapor and moisture transmission through the concrete, but do not eliminate it. The acceptable level of moisture transmission through the slab is to a large extent based on the type of flooring used. Ultimately, the vapor retarding system should be comprised of suitable elements to limit migration of water and reduce transmission of water vapor through the slab to acceptable levels. The selected elements should have suitable properties (i.e. thickness, composition, strength, and permeance) to achieve the desired performance level. Consideration should be given to consulting with an individual possessing specific expertise in this area for additional evaluation. Moisture and vapor retarding systems are intended to provide a certain level of resistance to vapor and moisture transmission through the concrete, but do not eliminate it. The acceptable level of moisture transmission through the slab is to a large extent based on the type of flooring used and environmental conditions. Ultimately, the vapor retarding system should be comprised of suitable elements to limited migration of water and reduce transmission of water vapor through the slab to acceptable levels. The selected elements should have suitable properties (i.e. thickness, composition, strength, and permeability) to achieve the desired performance level.

Moisture retarders can reduce, but not eliminate, moisture vapor rise from the underlying soils up through the slab. Moisture retarder systems should be designed and constructed in accordance with applicable American Concrete Institute, Portland Cement Association, Post-Tensioning Concrete Institute, ASTM and California Building Code requirements and guidelines.

GeoTek recommends that a qualified person, such as the flooring contractor, structural engineer, architect, and/or other experts specializing in moisture control within the building be consulted to evaluate the general and specific moisture and vapor transmission paths and associated potential impact on the proposed construction. That person (or persons) should provide recommendations relative to the slab moisture and vapor retarder systems and for migration of potential adverse impact of moisture vapor transmission on various components of the structures, as deemed appropriate.

In addition, the recommendations in this report and GeoTek's services in general are not intended to address mold prevention; since GeoTek, along with geotechnical consultants in general, do not practice in the area of mold prevention. If specific recommendations addressing potential mold issues are desired, then a professional mold prevention consultant should be contacted.

5.3.6 Soil Corrosivity and Sulfate Content

A full corrosion series was performed by GeoTek's subconsultant Project X Corrosion Engineering on two representative soil samples obtained from the borings. The results indicate a soil water-soluble sulfate content of less than 0.1 percent by weight, which is considered "negligible" per Table 4.2.1 of ACI 318. Based on the test results and ACI 318, no special recommendations for concrete on this project are required for this project due to soil sulfate exposure. Also, the results of saturated resistivity tests suggest that the on-site materials are "highly corrosive" to buried metals (Roberge, P.R., 2005). The laboratory results are presented in Appendix C.

5.4 RETAINING WALL DESIGN AND CONSTRUCTION

5.4.1 General Design Criteria

Recommendations presented herein may apply to typical masonry or concrete vertical retaining walls to a maximum height of up to 15 feet. Additional review and recommendations should be requested for higher walls.

Retaining wall foundations at least 12 inches wide embedded a minimum of 18 inches into engineered fill deposits should be designed using an allowable bearing capacity of 2,500 psf. This value may be increased by 300 pounds per square foot for each additional 12 inches in depth and 100 pounds per square foot for each additional 12 inches in width to a maximum value of 4,500 psf. Additionally, an increase of one-third may be applied when considering short-term live loads (e.g., seismic and wind loads).

The passive earth pressure may be computed as an equivalent fluid having a density of 250 psf per foot of depth, to a maximum earth pressure of 2,500 psf for footings founded on engineered fill. A coefficient of friction between soil and concrete of 0.35 may be used with dead load forces. Passive pressure and frictional resistance can be combined without reduction.

Retaining walls, including basement walls, should consider the use of a waterproofing to reduce moisture transmission through the wall facing elements and resulting efflorescence.

5.4.2 Cantilevered Walls

The recommendations presented below are for cantilevered retaining walls up to 15 feet high. Active earth pressure may be used for retaining wall design, provided the top of the wall is not restrained from minor deflections. An equivalent fluid pressure approach may be used to compute the horizontal pressure against the wall. Appropriate fluid unit weights are given below for specific slope gradients of the retained material. These do not include other superimposed loading conditions such as traffic, structures, seismic events, or adverse geologic conditions.

ACTIVE EARTH PRESSURES		
Surface Slope of Retained Materials (h:v)	Equivalent Fluid Pressure(pcf) Native Soils*	Equivalent Fluid Pressure(pcf) Imported Granular Materials**
Level	45	37
2:1	75	53

* The design pressures assume the native backfill material has an expansion index less than or equal to 50 and a friction angle of at least 29 degrees. Backfill zone includes area between the back of the wall and footing to a plane (1:1 h:v) up from the bottom of the wall foundation to the ground surface.

**The design pressures assume the imported granular backfill material has an expansion index less than or equal to 20 and a friction angle of at least 34 degrees. Backfill zone includes area between the back of the wall and footing to a plane (1:1 h:v) up from the bottom of the wall foundation to the ground surface.

It should be noted that the 2019 CBC requires the inclusion of an additional earthquake-induced lateral force to be considered on retaining walls retaining more than 6 feet of soil. An incremental seismic (dynamic) lateral earth pressure of 15 pcf is recommended for cantilever (unrestrained) walls with level backfill. The point of application of the dynamic load increment is at 1/3H, where H is the retained height. Additional surcharge loads from adjacent structures, pavements, retaining walls, etc. should be incorporated by the structural engineer into the retaining wall design as necessary.

5.4.3 Retaining Wall Backfill and Drainage

Retaining and/or basement wall backfill should have the properties indicated in Section 5.4.2 and should be free of deleterious and/or oversized materials. The wall backfill should also include a minimum one-foot wide section of ¾- to 1-inch clean crushed rock (or approved equivalent). The rock should be placed immediately adjacent to the back of wall and extend up from the back drain to within approximately 12 inches of finish grade. The upper 12 inches should consist of compacted onsite materials. Presence of other materials might necessitate revision to the parameters provided and modification of wall designs. The backfill materials should be placed in lifts no greater than 8-inches in thickness and compacted to a minimum of 90 percent of the soil's maximum dry density as determined by ASTM D 1557 test procedures. Proper surface drainage needs to be provided and maintained. Bracing of the walls during backfilling and compaction may also be necessary.

All earth retention structures should be provided with an adequate pipe and gravel back drain system to reduce the potential for hydrostatic pressure build up. As a minimum, backdrains should consist of a four-inch diameter perforated collector pipe (Schedule 40, SDR 35, or approved equivalent) embedded in a minimum of one cubic foot per lineal foot of ¾- to 1-inch

clean crushed rock or equivalent, wrapped in filter fabric (Mirafi 140N or approved equivalent). The drain system should be connected to a suitable outlet, as determined by the civil engineer. Drain outlets should be maintained over the life of the project and should not be obstructed or plugged by adjacent improvements. Waterproofing of site walls should be performed where moisture migration through the wall is undesirable.

As an alternative to the drain, rock and fabric, a pre-manufactured wall drainage product (example: Mira Drain 6000 or approved equivalent) may be used behind the retaining wall. The wall drainage product should extend from the base of the wall to within two (2) feet of the ground surface. The subdrain should be placed in direct contact with the wall drainage product.

Proper surface drainage needs to be provided and maintained. Water should not be allowed to pond behind retaining walls. Waterproofing of site walls should be performed where moisture migration through the wall is undesirable.

5.4.4 Restrained Retaining Walls

Any retaining walls that will be restrained (e.g. basement walls) prior to placing and compacting backfill material or that have reentrant or male corners, should be designed for an at-rest equivalent fluid pressure of 65 pcf for level native backfill, plus any applicable surcharge loading. For imported granular backfill, an equivalent fluid pressure of 57 pcf should be utilized. For areas of male or reentrant corners, the restrained wall design should extend a minimum distance of twice the height of the wall laterally from the corner.

5.4.5 Soil Nail Walls

Soil nail walls may be desired in select areas. One of the primary design constraints with soil nail walls is the availability of property to embed soil nails behind the wall face. In general, it appears soil nail walls may be considered as an option. Our office should be contact if soil nail walls are preferred and soil design parameters are needed.

5.4.6 Mechanically Stabilized Earthen (MSE) Walls

Mechanically stabilized earthen walls may be considered to be a design option in proposed areas where walls are being considered to retain new fill slopes. Based on laboratory analyses, the existing site soils appear to be favorable for MSE wall design. However, selective grading during construction and verified by additional laboratory conformation testing or additional sampling and testing prior to construction is recommended. Preliminarily, the following MSE design parameters may be considered.

Preliminary MSE Wall Design Parameters				
Purpose	Material	Unit Weight	Angle of Internal Friction (degrees)	Apparent Cohesion (psf)
MSE Walls	Select Fill	125	29	0

5.5 PRELIMINARY PAVEMENT DESIGN AND CONSTRUCTION

5.5.1 Asphalt Concrete Pavement Design

Based on laboratory testing, preliminary pavement sections have been designed using a R-value of 25. Traffic Indices (TIs) of 5.0 and 6.0 were utilized, and depending on final guidance from a traffic engineer, may require revision of the following recommendations:
Traffic Index of 5.0:

3-inches asphalt concrete (AC) over
7-inches of aggregate base (AB) over
12-inches of subgrade compacted to 95% of maximum dry density

Traffic Index of 6.0:

4-inches asphalt-concrete (AC) over
8-inches of aggregate base (AB) over
12-inches of subgrade compacted to 95% of maximum dry density

The provided pavement sections are intended as a minimum guideline and final selection of pavement cross section parameters should be made by the project civil engineer, based upon the local laws and ordinates, expected subgrade and pavement response, and desired level of conservatism. If thinner or highly variable pavement sections are constructed, increased maintenance and repair could be expected. Irrigation adjacent to pavements, without a deep curb or other cutoff to separate landscaping from the paving may result in premature pavement failure. Final pavement design should be checked by testing of soils exposed at subgrade (the upper 12 inches) after final grading has been completed.

Asphalt concrete and aggregate base should conform to current Caltrans Standard Specifications Section 39 and 26-1.02, respectively. As an alternative, asphalt concrete can conform to Section 203-6 of the current Standard Specifications for Public Work (Green Book). Crushed aggregate base or crushed miscellaneous base can conform to Section 200-2.2 and 200-2.4 of the Green

Book, respectively. Pavement base should be compacted to at least 95 percent of the ASTM D 1557 laboratory maximum dry density (modified proctor).

All pavement installation, including preparation and compaction of subgrade, compaction of base material, placement and rolling of asphaltic concrete, should be done in accordance with the City of Oceanside specifications, and under the observation and testing of GeoTek and a City inspector, if necessary. Jurisdictional minimum compaction requirements in excess of the aforementioned minimums may govern.

5.6 CONCRETE FLATWORK

5.6.1 Exterior Concrete Slabs, Sidewalks and Driveways

Exterior concrete slabs, sidewalks and driveways should be designed using a four-inch minimum thickness. Some shrinkage and cracking of the concrete should be anticipated as a result of typical mix designs and curing practices typically utilized in construction.

Sidewalks and driveways may be under the jurisdiction of the governing agency. If so, jurisdictional design and construction criteria would apply, if more restrictive than the recommendations presented in this report.

Subgrade soils should be pre-moistened prior to placing concrete. The subgrade soils below exterior slabs, sidewalks, driveways, etc. should be pre-saturated to a minimum of 110 percent (for "low" expansivity) of the optimum moisture content to a depth of 12 inches.

All concrete installation, including preparation and compaction of subgrade, should be done in accordance with the City of Oceanside specifications, and under the observation and testing of GeoTek, Inc. and a City inspector, if necessary.

5.6.2 Concrete Performance

Concrete cracks should be expected. These cracks can vary from sizes that are "hairline" to more than 1/8 inch in width. Most cracks in concrete, while unsightly, do not significantly impact long-term performance. While it is possible to take measures (proper concrete mix, placement, curing, control joints, etc.) to reduce the extent and size of cracks that occur, some cracking will occur despite the best efforts to minimize it. Concrete undergoes chemical processes that are dependent on a wide range of variables, which are difficult, at best, to control. Concrete, while seemingly a stable material, is subject to internal expansion and contraction due to external changes over time.

One of the simplest means to control cracking is to provide weakened control joints for cracking to occur along. These do not prevent cracks from developing; they simply provide a relief point for the stresses that develop. These joints are a widely accepted means to control cracks but are not always effective. Control joints are more effective the more closely spaced they are. GeoTek, Inc. suggests that control joints be placed in two directions and located a distance apart approximately equal to 24 to 36 times the slab thickness.

6. POST CONSTRUCTION CONSIDERATIONS

6.1 LANDSCAPE MAINTENANCE AND PLANTING

Water has been shown to weaken the inherent strength of soil, and slope stability is significantly reduced by overly wet conditions. Soils should be maintained in solid to semi-solid state as indicated by the material's Atterberg limits. Positive surface drainage away from graded slopes should be maintained and only the amount of irrigation necessary to sustain plant life should be provided for planted slopes. Controlling surface drainage and runoff and maintaining a suitable vegetation cover can minimize erosion. Plants selected for landscaping should be lightweight, deep-rooted types that require little water and are capable of surviving the prevailing climate.

Overwatering should be avoided. An abatement program to control ground-burrowing rodents should be implemented and maintained. Burrowing rodents can decrease the long-term performance of slopes.

It is common for planting to be placed adjacent to structures in planter or lawn areas. This will result in the introduction of water into the ground adjacent to the foundations. This type of landscaping should be avoided.

6.2 DRAINAGE

Positive site drainage should be maintained at all times. Drainage should not flow uncontrolled down any descending slope. Water should be directed away from foundations and not allowed to pond or seep into the ground adjacent to the footings. Paved areas should be sloped at two percent away from the structure. Downspouts should discharge onto paved surfaces sloping away from the structure or into a closed pipe system which outfalls to a street gutter or directly to a storm drain system. Pad drainage should be directed toward approved areas and not be blocked by other improvements. Additional recommendations can be found in Section 1804A of the California Building Code.

It is the owner's responsibility to maintain and clean drainage devices. In order to be effective, maintenance should be conducted on a regular and routine schedule and necessary corrections made prior to each rainy season.

6.3 PLAN REVIEW AND CONSTRUCTION OBSERVATIONS

It is recommended that specifications and foundation plans be reviewed by GeoTek prior to construction to check for conformance with the recommendations of this report. It is also recommended that GeoTek, Inc. representatives be present during site grading and foundation construction to observe and document proper implementation of the geotechnical recommendations. The owner/developer should verify that GeoTek, Inc. representatives perform at least the following duties:

- Observe site clearing and grubbing operations for proper removal of unsuitable materials.
- Observe and test bottom of removals prior to fill placement.
- Evaluate the suitability of on-site and import materials for fill placement and collect soil samples for laboratory testing where necessary.
- Observe the fill for uniformity during placement, including utility trench backfill. Also, perform field density testing of the fill materials.
- Observe and probe foundation excavations to confirm suitability of bearing materials with respect to density.

If requested, a construction observation and compaction report can be provided by GeoTek, Inc. which can comply with the requirements of the governmental agencies having jurisdiction over the project. GeoTek recommends that these agencies be notified prior to commencement of construction so that necessary grading permits can be obtained.

7. LIMITATIONS

The scope of GeoTek's evaluation is limited to the area explored that is shown on Figure 2a and Figure 2b. This evaluation does not and should in no way be construed to encompass any areas beyond the specific area of proposed construction as indicated to us by the client. Further, no evaluation of any existing site improvements is included. The scope of services for this evaluation is based on GeoTek's understanding of the project and the client's needs, GeoTek's proposal (Proposal No. P-0901621-SD) dated September 23, 2021 and geotechnical engineering standards normally used on similar projects in this region.

The earth materials observed on the project site appear to be representative of the area; however, soil and bedrock may vary in character between excavations and natural outcrops or conditions exposed during site construction. Site conditions may vary due to seasonal changes or other factors. GeoTek, Inc. assumes no responsibility or liability for work, testing or recommendations performed or provided by others.

Since GeoTek's recommendations are based on a limited subsurface evaluation and the site conditions observed and encountered, GeoTek's conclusions and recommendations are professional opinions that are limited to the extent of the available data. Observations during construction are important to allow for any change in recommendations found to be warranted. These opinions have been derived in accordance with current standards of practice and no warranty is expressed or implied. Standards of practice are subject to change with time.

8. SELECTED REFERENCES

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California Code of Regulations, Title 24, 2019 "California Building Code," 2 volumes.

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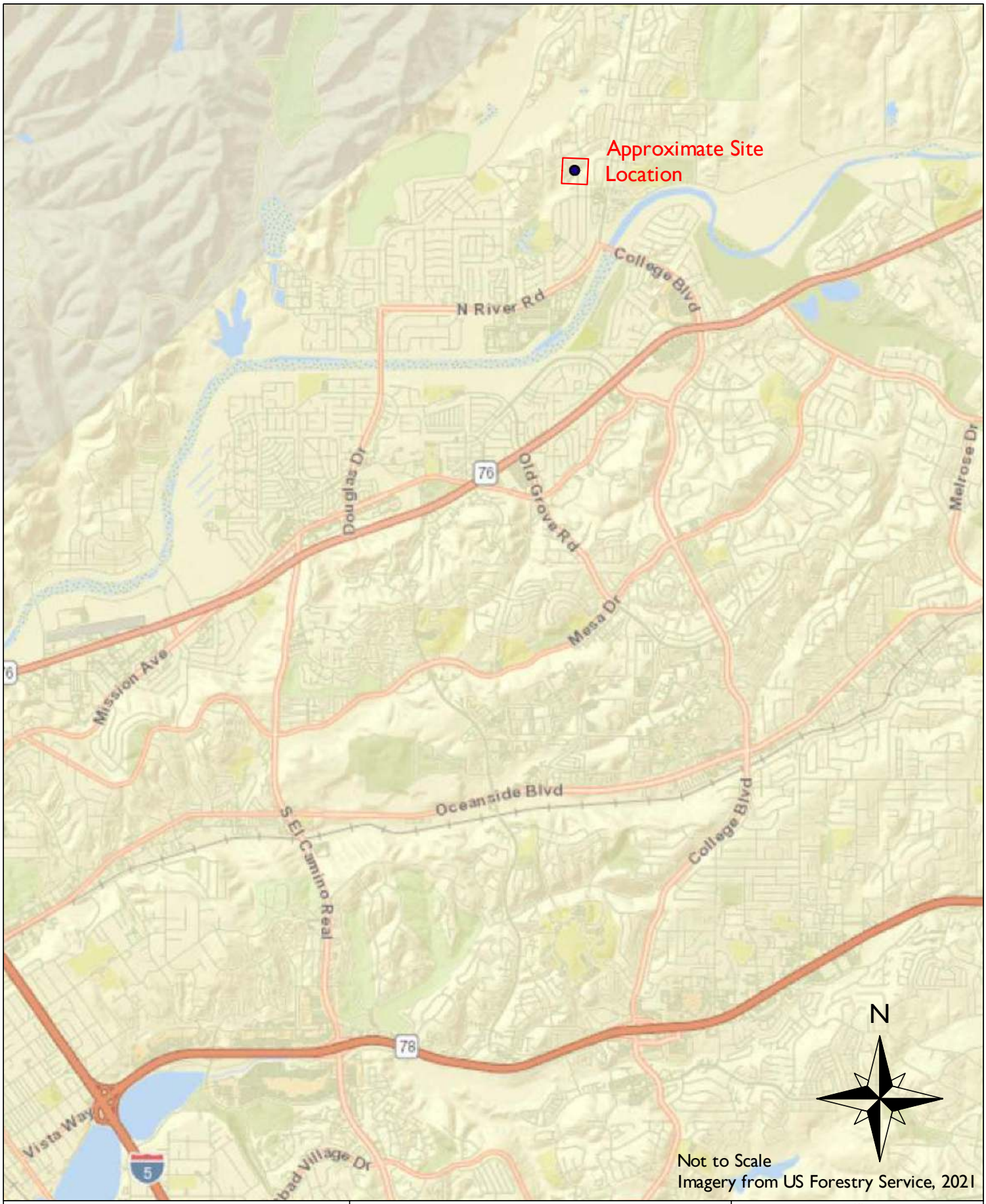


MLC Holdings, Inc. 4991 Macario Drive Oceanside, California	Figure 1 Site Location Map	GEOTEK 1384 Poinsettia Avenue, Suite A Vista, California 92081
PN: 3743-SD | DATE: November 2021		

Marblehead Bay Dr

Roja Dr

Tsa

Af

Tsa

B-10

B-5

B-13

Af

Tsa

B-2

B-11

Af

Qal

B-12

B-9

B-3

B-4

Af

Qal

Af

Tsa

CPT-1

B-1

B-8

B-7

P-1

P-2

N

Tsa

B-6

Scale: 1" = 80'

0 40 80 160

LEGEND

B-5	Approximate Location of Boring
CPT-1	Approximate Location of CPT Test
P-2	Approximate Location of Percolation Test
Af	Artifical Fill
Tsa	Tertiary Santiago Formation, Circled where Buried
Qal	Quaternary Alluvium, Circled where Buried
	Approximate Limits of Study
?	Approximate Limits of Geotechnical Contact

Imagery from Google Earth, 2021

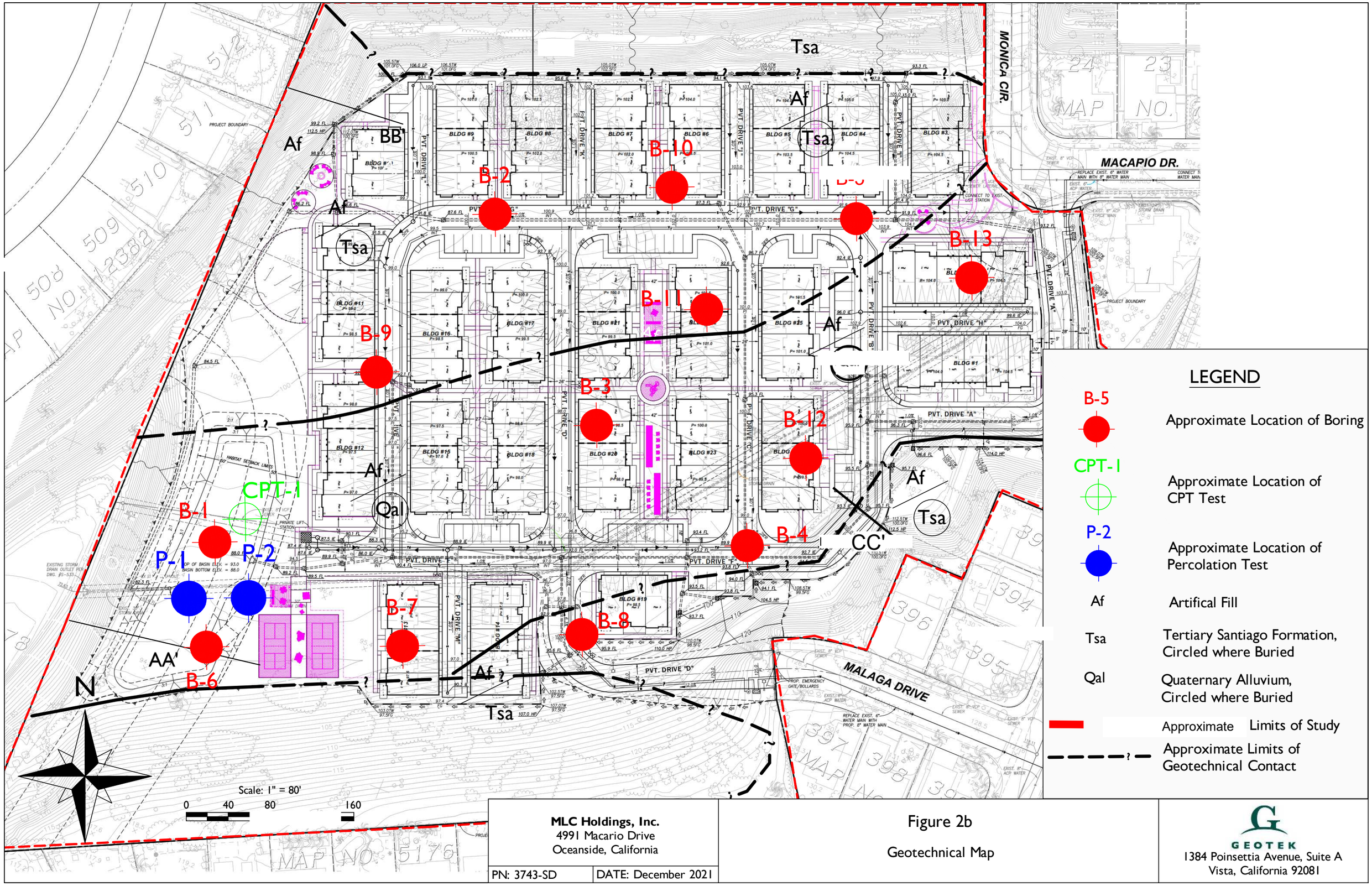
MLC Holdings, Inc.
4991 Macario Drive
Oceanside, California

PN: 3743-SD | DATE: December 2021

Figure 2a

Geotechnical Map

GEOTEK
1384 Poinsettia Avenue, Suite A
Vista, California 92081



LEGEND

B-5	Approximate Location of Boring
CPT-1	Approximate Location of CPT Test
P-2	Approximate Location of Percolation Test
Af	Artifical Fill
Tsa	Tertiary Santiago Formation, Circled where Buried
Qal	Quaternary Alluvium, Circled where Buried
Approximate	Limits of Study
Approximate	Limits of Geotechnical Contact

MLC Holdings, Inc.
4991 Macario Drive
Oceanside, California

PN: 3743-SD | DATE: December 2021

Figure 2b

Geotechnical Map

GEOTEK
1384 Poinsettia Avenue, Suite A
Vista, California 92081

APPENDIX A

EXPLORATORY LOGS

GEOTEK

A - FIELD TESTING AND SAMPLING PROCEDURES

Bulk Samples (Large)
These samples are normally large bags of earth materials over 20 pounds in weight collected from the field by means of hand digging or exploratory cuttings.

Bulk Samples (Small)
These are plastic bag samples which are normally airtight and contain less than 5 pounds in weight of earth materials collected from the field by means of hand digging or exploratory cuttings. These samples are primarily used for determining natural moisture content and classification indices.

B – EXPLORATORY LOG LEGEND

The following abbreviations and symbols often appear in the classification and description of soil and rock on the logs of borings:

SOILS

USCS	Unified Soil Classification System
f-c	Fine to coarse
f-m	Fine to medium

GEOLOGIC

B: Attitudes	Bedding: strike/dip
J: Attitudes	Joint: strike/dip
C: Contact line	
……..	Dashed line denotes USCS material change
———	Solid Line denotes unit / formational change
———	Thick solid line denotes end of the boring

(Additional denotations and symbols are provided on the log of Explorations)

GeoTek, Inc.
LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	94 feet	**DATE:**	10/5/2021

BORING NO.: B-1

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artifical Fill (Af) Silty fine to medium SAND, yellow brown			
		10 19 25	R-1 BB-1	SM	Silty fine to medium SAND, yellow brown with brown/white/brown-gray inclusions, dry, medium dense			
5		8 17 23	R-2	SM SM/SC	Silty fine to medium SAND, yellow brown with brown/white/brown-gray intermixed, dry, medium dense Silty fine to coarse SAND with clay, red brown with brown/white/yellow-gray, damp, medium dense, ~5% clay, medium plasticity	11.4	114.8	CO
		10 10 14	R-3	SC	Clayey fine to medium SAND, dark brown with red/white/yellow intermixed, slightly moist, medium dense, ~10% clay	7.9	109.7	
10		7 8 13	R-4	SC SM	Clayey fine to medium SAND, dark brown with red/white/yellow intermixed, slightly moist, medium dense, ~10% clay Bottom 6" of sampler-Silty fine to medium SAND, yellow brown with white/gray, brown moist, medium dense	9.5	113.2	
		4 6 10	R-5	SC	Clayey fine to medium SAND, red brown to brown with mixed colors, moist, loose, ~20-25% clay	15.2	113.5	CO
15		6 13 21	R-6	SC SC	Clayey fine to medium SAND, red brown to brown with mixed colors, moist, medium dense, ~20-25% clay Bottom 4" of sampler- Clayey fine to coarse SAND, gray, moist, medium dense, ~20-25% clay	12.4	119.7	
		6 11 12	R-7	SC	Clayey fine to coarse SAND, gray with reddish-white, brown, yellow intermixed, moist, medium dense, ~20-30% clay	13.2	108	CO
20		6 9 12	R-8	SC SP	Clayey fine to coarse SAND, gray with reddish-white, brown, yellow intermixed, moist, medium dense, ~20-30% clay **Quaternary Alluvium (Qal)** Bottom 4" of sampler- Fine to coarse SAND with few clay, gray-black to light gray, moist, medium dense	13.4	113.8	
25		5 5 13	R-9	SP	Fine to coarse SAND with few clay, dark gray to light gray, moist, loose to medium dense, root mottling at top of sampler, tap roots throughout	15.1	103.9	
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	94 feet	**DATE:**	10/5/2021

BORING NO.: B-1

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
		7 11 19	R-10	SP/SC	Clayey sand to fine to coarse SAND, dark gray, very moist to wet, some visible water at top of sampler, medium dense, many organics, ~10-15% clay	15.3	117.9	
35		9 13 19	R-11	SP/SC	Clayey sand to fine to coarse SAND, dark gray, very moist to wet, some visible water at top of sampler, medium dense, many organics, ~10-15% clay	16.5	115.8	
40		6 7 9	S-1	SC	Clayey fine to coarse SAND, red brown to light brown, moist, medium dense, low recovery			
45		- - 14	S-2	SC	Clayey fine to medium SAND to sandy clay, light brown, saturated, loose, ~40% clay, highly plastic			
					HOLE TERMINIATED AT 46.5 FEET Groundwater encountered at 45 feet Backfilled with soil cuttings			
50								
55								
60								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.
LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	10/5/2021

BORING NO.: B-2

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
			BB-1		**Artifical Fill (Af)** Cuttings silty fine to medium SAND, yellow brown with green, brown, white inclusions			
5		26 50/5	R-1		**Tertiary Santiago Formation (Tsa)** Fine to coarse SANDSTONE, white with orange oxidation, dry, dense to very dense, jointed, some silt, ~10%			
10		13 22 30	S-1		Fine to coarse SANDSTONE, white with orange oxidation, dry, dense to very dense, jointed, some silt, ~10%			
					HOLE TERMINATED AT 11.5 FEET No groundwater encountered Backfilled with soil cuttings			
15								
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	95 feet	**DATE:**	10/5/2021

BORING NO.: B-3

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
			BB-1		**Artifical Fill (Af)**			
5		12 20 26	R-1	SM	Silty medium to coarse SAND, few gravels, red brown with yellow, dark brown, gray gravels, dry, medium dense to dense Bottom 6" of sampler- Silty fine to medium SAND with clay, yellow brown with white, brown, grey inclusions, slightly moist, medium dense	5.2	112.3	
10		9 11 10	R-2	SC	Clayey medium to coarse SAND, yellow brown with white, brown, gray inclusions, moist, loose	16.6	105.5	CO
					Quaternary Alluvium (Qal) Cuttings become gray clayey SAND			
15		6 24 29	R-3	SM	Silty fine to medium SAND with few clay, dark gray to light brownish gray, very moist to moist, medium dense to dense, ~10% clay top sampler, no clay bottom sampler	12.9	105.3	CO
20		28	R-4	SM	Silty fine to medium SAND with clay, dark to light gray, moist, medium dense			
		50/4			**Tertiary Santiago Formation (Tsa)** Bottom sampler - Fine to medium SANDSTONE, white with yellow laminations, slightly moist, very dense			
		15 25 32	S-1		Fine to medium SANDSTONE, white with some yellow laminations, very moist, dense			
25					**HOLE TERMINATED AT 24.5 FEET** No groundwater encountered Backfilled with soil cuttings			
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	95 feet	**DATE:**	10/5/2021

BORING NO.: B-4

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					2" Asphalt over 3" Base **Artificial Fill (Af)**			
5		6 15 25	R-1	SC	Clayey SAND with gravel, blackish-gray with yellow, white, brown, reddish inclusions, slightly moist, medium dense, coarse gravels in top sampler, "manure odor"	11.4	114.8	
10		5 13 16	R-2	SM	Silty fine to medium SAND, white with yellowish gray mottling, slightly moist, medium dense	17	101.7	CO
15		6 10 13	R-3	SM/SC	Silty fine to medium SAND with gravel, white with yellowish gray mottling, slighly moist, medium dense, interlaminated black clayey lenses, ~10% clay	15.8	107.2	CO
20		9 12 16	R-4	SC	Clayey fine to medium SAND, yellowish brown mottled with black and gray lenses, moist, loose to medium dense, ~10% clay	16.3	106.9	
25		12 22 32	R-5	SC	Clayey fine to medium SAND, yellowish brown, moist, medium dense **Tertiary Santiago Formation (Tsa)** Weathered SANDSTONE, white with yellowish orange, moist, dense			
					HOLE TERMINATED AT 26.5 FEET No groundwater encountered Backfilled with soil cuttings			
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Miguel & Brian
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Yeti M10
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	10/5/2021

BORING NO.: B-5

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
			BB-1		**A/C-** Asphalt 3" / Subgrade **Artificial Fill (Af)**			
				SM	Cuttings yellow silty SAND			
5		5 8 13	R-1	SC	Clayey SAND with gravel, black to brown with some yellow mottling, moist, loose to medium dense, ~35% clay	18.9	106.2	
		14		SC	Clayey SAND with gravel, black to brown with some yellow mottling, moist, loose to medium dense, ~35% clay			
10		50/4	R-2		**Tertiary Santiago Formation (Tsa)** Bottom half of sampler- Fine to medium weathered SANDSTONE, yellow brown to reddish white, moist, dense to very dense	10.9	106.9	
		21 34 45	S-1		Fine to medium weathered SANDSTONE, yellow brown to reddish white, moist, dense to very dense			
15					**HOLE TERMINATED AT 14 FEET** No groundwater encountered Backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-6

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artificial Fill (Af)			
				SM	silty fine to medium SAND, yellow to light brown, dry			
5		4 10 11	R-1	SM	Silty fine to medium SAND, yellow brown with brown, white, and gray inclusions, dry to damp, medium dense, poorly graded	10.5	97	
			BB-1					
		4 5 4	S-1	SM	Silty fine to medium SAND, yellow brown with brown, white, and gray inclusions, dry to damp, loose, poorly graded			
10		6 13	R-2	SM	Top of sampler - Silty fine to medium SAND, yellow brown with brown, white, and gray inclusions, dry to damp, medium dense, poorly graded	10.8	117.2	
		21		SP	**Quaternary Alluvium (Qal)** Bottom of sampler - medium to coarse SAND with clay, some white caliche, red brown with few white, moist, medium dense			
		3 4 5	S-2	SC	Clayey fine to medium SAND, many charcoal, black-gray to red brown, damp to slightly moist, loose, burnt, some organics			
15					**HOLE TERMINATED AT 14 FEET** No groundwater encountered Backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-7

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artificial Fill (Af)			
5		3 9 10	R-1	SC	Clayey SAND with silt, dark brown with yellowish gray inclusions, very damp, loose	11.7	114.9	
		5 6 5	R-2	SC	Clayey SAND with silt, dark brown to light brown with red mottling, some black lenses, slightly moist, loose	16	102.7	
10		5 5 8	R-3	SM	Silty SAND with clay, light yellow brown with blak clay sand lenses, some reddish mottling, moist, loose	15.6	111.2	
					Quaternary Alluvium (Qal)			
15		4 11 16	R-4	SM/SP	Silty fine-medium SAND, black-gray, moist, loose to medium dense, roots, very poorly graded	10.7	112.3	
20		3 5 7	R-5	SM/SP	Silty fine-medium SAND, black-gray, moist, loose to medium dense, roots, very poorly graded	12.6	106.2	
					HOLE TERMINATED AT 20 FEET No groundwater encountered Backfilled with soil cuttings			
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	CO = Consolidation test	MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-8

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artificial Fill (Af)			
				SM	Cuttings silty SAND with clay, yellow brown to red brown			
5		6 8 11	R-1	SM	Silty fine to medium SAND, yellow brown with reddish brown, white, and gray inclusions, slightly moist, medium desne	17.2	96.2	
10		3 4 5	R-2	SM	Silty fine to medium SAND, yellow brown with white and gray inclusions, slightly moist, loose, poorly graded	15.4	97	
15		4 11 18	R-3	SC	Clayey fine SAND, dark brown to gray, some white to reddish inclusions, moist, loose to medium dense, poorly graded	19.9	106.6	
					cuttings turn black clayey sand, moist			
20		5 8 12	R-4	SC	Clayey fine to medium SAND with silt, yellow brown with white to red inclusions, damp, loose to medium dense, poorly graded	14.4	115	
25		19 43 50/4	R-5		**Tertiary Santiago Formation (Tsa)** Fine to medium SANDSTONE, yellow brown, moist, medium dense to dense	13.8	107.8	
					HOLE TERMINATED AT 26.5 FEET			
					No groundwater encountered Backfilled with soil cuttings			
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-9

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artificial Fill (Af)			
5		8 13 12	R-1	SM	Silty fine to medium SAND, yellow brown with brown, gray, and white inclusions, damp, medium dense	6	105.3	
10		5 6 15	R-2	SM	Silty fine to medium SAND, yellow brown with brown, gray, and white inclusions, moist, medium dense to loose	10.8	108.7	
		19 40 50/5	R-3		**Tertiary Santiago Formation (Tsa)** Fine to medium SANDSTONE, yellow brown to light brown, moist, dense	10.9	109.3	
15					**HOLE TERMINATED AT 14 FEET** No groundwater encountered Backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	CO = Consolidation test	MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-10

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					2" asphalt over 3" base **Artificial Fill (Af)**			
5		4 11 23	R-1 BB-1	SM	Silty fine to medium SAND, yellow-brown with white to gray inclusions, damp to slightly moist, medium dense	16.6	106.1	
10		12 37 50/4	R-2		**Tertiary Santiago Formation (Tsa)** Fine to medium SANDSTONE, yellow with red-brown mottling, moist, dense	16.1	115.3	
15					**HOLE TERMINATED AT 11.5 FEET** No groundwater encountered Backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	CO = Consolidation test	MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-11

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					2" asphalt over 2" base **Artificial Fill (Af)**			
5		6 8 10	R-1	SM BB-1	Silty fine to medium SAND with clay, yellow brown with red, white, and green inclusions, damp to slightly moist, loose	15.3	105.4	
10		6 16	R-2A	SC	Top of sampler - clayey SAND with silt, brown with yellow, red, and gray inclusions, moist, loose to medium dense	16.5	108.2	
		45	R-2B/ S-1		**Tertiary Santiago Formation (Tsa)** Bottom of sampler - fine SANDSTONE, white to light brown, moist, dense	11.9	104.7	
15					**HOLE TERMINATED AT 11.5 FEET** No groundwater encountered Backfilled with soil cuttings			
20								
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing:

AL = Atterberg Limits	EI = Expansion Index	SA = Sieve Analysis	RV = R-Value Test
SR = Sulfate/Resisitivity Test	SH = Shear Test	CO = Consolidation test	MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-12

Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					2" asphalt over 3" base **Artificial Fill (Af)**			
5		6 10 15	R-1 BB-1	SM	Silty fine to medium SAND with clay, dark brown with red-white inclusions, moist, loose to medium dense	14.4	113.5	
10		6 8 13	R-2	SM	Silty fine to medium SAND, yellow brown with white, dark brown, red, and gray inclusions, moist to very moist, loose to medium dense	19.6	104.6	
15		5 8 12	R-3	SM	Top of smpler - Silty fine to medium SAND, yellow brown with white, dark brown, red, and gray inclusions, moist to very moist, loose to medium dense	17.2	105.1	
				SP/SC	**Quaternary Alluvium (Qal)** Bottom of sampler - clayey fine SAND, grayish black, moist, loose to medium dense, many roots, organic odor			
20		4 7 15	R-4	SP/SC	Clayey fine SAND, gray-black, moist, loose to medium dense, many roots, organic odor	13.4	115.9	
					HOLE TERMINATED AT 21.5 FEET No groundwater encountered Backfilled with soil cuttings			
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

GeoTek, Inc.

LOG OF EXPLORATORY BORING

CLIENT:	MLC Holdings	**DRILLER:**	Pacific Drilling	**LOGGED BY:**	MSB
PROJECT NAME:	4991 Macario Drive	**DRILL METHOD:**	8" HSA 3.75" ID	**OPERATOR:**	Brian and Carlos
PROJECT NO.:	3743-SD	**HAMMER:**	140lbs/30in	**RIG TYPE:**	Sabercat MTXD
LOCATION:	See Geotechnical Map	**ELEVATION:**	99 feet	**DATE:**	11/4/2021

BORING NO.: B-13

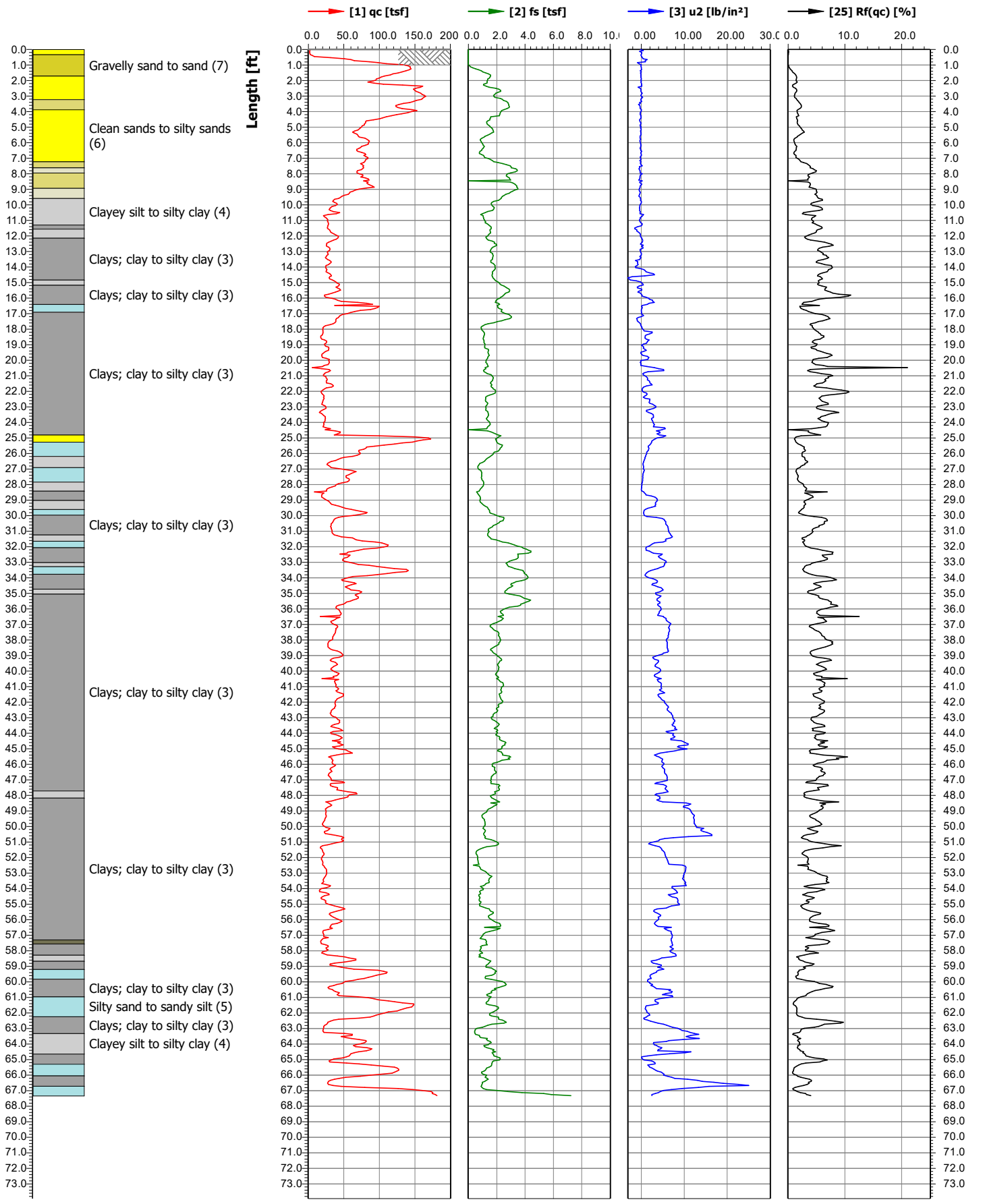
Depth (ft)	SAMPLES: Sample Type	SAMPLES: Blows/ 6 in	SAMPLES: Sample Number	USCS Symbol	MATERIAL DESCRIPTION AND COMMENTS	Laboratory Testing: Water Content (%)	Laboratory Testing: Dry Density (pcf)	Laboratory Testing: Others
					Artificial Fill (Af)			
5		5 10 13	R-1	SM	Silty fine to medium SAND, light brown to yellow brown with gray, and orange inclusions, damp, medium dense	14.2	103.4	
			BB-1					
10		6 8 11	R-2	SM	Silty fine to medium SAND, yellow brown to light brown with red, white, gray inclusions, moist, medium dense	16.3	108.2	
15		3 5 11	R-3	SM/SC	Top of sampler - Silty fine to medium SAND, yellow brown to light brown with red, white, and gray inclusions, moist, loose. Gray clay SAND near mid sampler	12.8	110	
				SM/SP	**Quaternary Alluvium (Qal)** Bottom of sampler - silty SAND, grayish black, moist, loose, roots, organic odor			
20					**HOLE TERMINATED AT 16.5 FEET** No groundwater encountered Backfilled with soil cuttings			
25								
30								

LEGEND

Sample type: ---Ring ---SPT ---Small Bulk ---Large Bulk ---No Recovery ---Water Table

Lab testing: AL = Atterberg Limits; EI = Expansion Index; SA = Sieve Analysis; RV = R-Value Test; SR = Sulfate/Resisitivity Test; SH = Shear Test; CO = Consolidation test; MD = Maximum Density

Cone no: 5238	Location:	Position: X: 0.00 ft Y: 0.00 ft	Ground level: 0.00	Test no: CPT #1
Tip/sleeve area [cm²]: 10 / 150	Project ID:	Client: Geotek	Date: 10/5/2021	Standard / class: /
Area factor a/b: 0.838 / 0.000	Project: 4991 Macario, Oceanside		Page: 1/1	Scale: 1:100
Pore pressure: U2			Coordinate system:	



APPENDIX B

PERCOLATION TESTS AND ANALYSIS

GEOTEK

PERCOLATION DATA SHEET

Project: 4991 Macario Drive **Job No.:** 3743-SD.

Test Hole No.: P-1 **Tested By:** MSB, **Date:** 10/6/21.

Depth of Hole As Drilled: 60" **Before Test:** 60" **After Test:** 60"

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)		Comments
1	9:40	30	60	15	19.5	4.5		
2	10:15	30	60	12	16.25	4.25		
3	10:50	30	60	12	16	4		
4	11:25	30	60	12	15.75	3.75		
5	12:00	30	60	12	15	3		
6	12:35	60	60	12	17.75	5.75		
7	12:35	60	60	12	18	6		
8	14:40	60	60	12	17.75	5.75		
9	15:45	60	60	12	17.5	5.5		

Client:	**MLC Holdings, Inc.**
Project:	**4991 Macario Drive Residential Project**
Project No:	**3743-SD**
Date:	**10/6/2021**

Boring No. **P-1**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	17.50
Test Hole Radius, r =	2.00
Initial Depth to Water, D_O =	12
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\ (60r)}{\Delta t\ (r+2H_{avg})}$

$H_O = D_T - D_O$ =	48.00
$H_F = D_T - D_F$ =	42.50
$\Delta H = \Delta D = H_O - H_F$ =	5.50
$Havg = (H_O+H_F)/2$ =	45.25

I_t = 0.24 **Inches per Hour**

GEOTEK

PERCOLATION DATA SHEET

Project: 4991 Macario Drive **Job No.:** 3743-SD.

Test Hole No.: P-2 **Tested By:** MSB, **Date:** 10/6/21.

Depth of Hole As Drilled: 60" **Before Test:** 60" **After Test:** 60".

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	Δ In Water Level (Inches)		Comments
1	9:41	30	60	12.75	15	0		
2	10:16	30	60	12	13.25	1.25		
3	10:51	30	60	12	13.25	1.25		
4	11:26	30	60	12	13.5	1.5		
5	11:26	30	60	12	13.5	1.5		
6	12:31	60	60	12	14.75	2.75		
7	13:36	60	60	12	13.5	1.5		
8	14:41	60	60	12	13.75	1.75		
9	15:46	60	60	12	13.5	1.5		

Client:	**MLC Holdings, Inc.**
Project:	**4991 Macario Drive Residential Project**
Project No:	**3743-SD**
Date:	**10/6/2021**

Boring No. **P-2**

Infiltration Rate (Porchet Method)

Time Interval, Δt =	30
Final Depth to Water, D_F =	13.50
Test Hole Radius, r =	2.00
Initial Depth to Water, D_O =	12
Total Test Hole Depth, D_T =	60

Equation - $I_t = \dfrac{\Delta H\ (60r)}{\Delta t\ (r+2H_{avg})}$

$H_O = D_T - D_O$ =	48.00
$H_F = D_T - D_F$ =	46.50
$\Delta H = \Delta D = H_O - H_F$ =	1.50
$Havg = (H_O+H_F)/2$ =	47.25

I_t = 0.06 **Inches per Hour**

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Worksheet C.4-1: Categorization of Infiltration Feasibility Condition

Categorization of Infiltration Feasibility Condition		Worksheet C.4-1	
Part 1 - Full Infiltration Feasibility Screening Criteria **Would infiltration of the full design volume be feasible from a physical perspective without any undesirable consequences that cannot be reasonably mitigated?**			
Criteria	Screening Question	**Yes**	**No**
1	**Is the estimated reliable infiltration rate below proposed facility locations greater than 0.5 inches per hour?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.		X
Provide basis: Based on in-situ field percolation testing and infiltration analysis, the site underlying soils infiltrate at a rate less than 0.5 inches per hour. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
2	**Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.		X
Provide basis: Not applicable. Answer to question number 1 expresses rates are below 0.5 inches per hour. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			

Worksheet C.4-1 Page 2 of 4			
Criteria	Screening Question	**Yes**	**No**
3	**Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of groundwater contamination (shallow water table, stormwater pollutants or other factors) that cannot be mitigated to an acceptable level?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.		X
Provide basis: Not applicable. Answer to question number 1 expresses rates are below 0.5 inches per hour. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
4	**Can infiltration greater than 0.5 inches per hour be allowed without causing potential water balance issues such as change of seasonality of ephemeral streams or increased discharge of contaminated groundwater to surface waters?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.		X
Provide basis: Not applicable. Answer to question number 1 expresses rates are below 0.5 inches per hour. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
Part 1 Result*	If all answers to rows 1 - 4 are "**Yes**" a full infiltration design is potentially feasible. The feasibility screening category is **Full Infiltration** If any answer from row 1-4 is "**No**", infiltration may be possible to some extent but would not generally be feasible or desirable to achieve a "full infiltration" design. Proceed to Part 2		No

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by City Engineer to substantiate findings.

Worksheet C.4-1 Page 3 of 4

Part 2 – Partial Infiltration vs. No Infiltration Feasibility Screening Criteria

Would infiltration of water in any appreciable amount be physically feasible without any negative consequences that cannot be reasonably mitigated?

Criteria	Screening Question	Yes	No
5	**Do soil and geologic conditions allow for infiltration in any appreciable rate or volume?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.	X	

Provide basis:

Based on in-situ field percolation testing and infiltration analysis, the site underlying soils infiltrate rate was measured at 0.06 and 0.24 inches per hour.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

6	**Can Infiltration in any appreciable quantity be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level**? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.		X

Provide basis:

The proposed plan consists of a stormwater quality basin in the western portion of the site at the top of an approximate 20 foot tall descending fill slope. It is our understanding, based on conversations with the project's civil engineer, the basin is proposed at a fixed location. Based on the proposed location of the stormwater quality basin, designed infiltration of surface water increases adverse geotechnical slope stability hazards.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

Worksheet C.4-1 Page 4 of 4			
Criteria	Screening Question	**Yes**	**No**
7	**Can Infiltration in any appreciable quantity be allowed without posing significant risk for groundwater related concerns (shallow water table, stormwater pollutants or other factors)?** The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.		X
Provide basis: Not applicable. Answer to question number 6 is no. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
8	**Can infiltration be allowed without violating downstream water rights**? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.		X
Provide basis: Not applicable. Answer to question number 6 is no. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
Part 2 Result*	If all answers from row 1-4 are yes then partial infiltration design is potentially feasible. The feasibility screening category is **Partial Infiltration.** If any answer from row 5-8 is no, then infiltration of any volume is considered to be **infeasible** within the drainage area. The feasibility screening category is **No Infiltration.**		No Infiltration

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by Agency/Jurisdictions to substantiate findings

APPENDIX C

LABORATORY TEST RESULTS

GEOTEK

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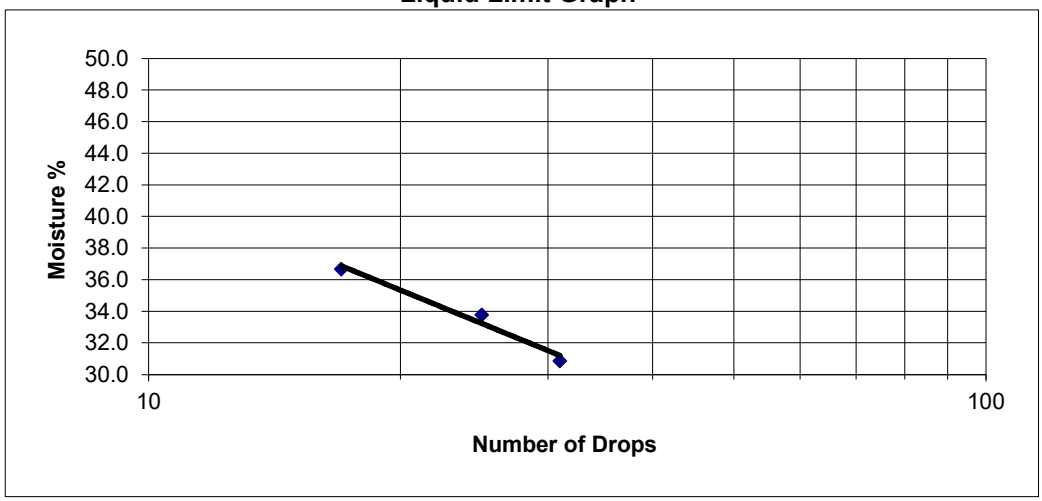
ATTERBERG LIMITS DATA

Field Classification		Job No.	3743-SD
Sample Number		Client	MLC Holdings
Sample Type		Project	4991 Macario Drive
Location	B-1 @ 2.5-15 feet		
Tested by:	RL		

	Plastic Limit			Liquid Limit		
Number of Blows				31	25	17
Wt. of Dish + Wet Soil	36.74	36.42		16.12	16.16	17.33
Wt. of Dish + Dry Soil	35.90	35.57		13.76	13.63	14.33
Wt. of Moisture	0.84	0.85		2.36	2.53	3.00
Wt. of Dish	30.71	30.37		6.11	6.14	6.15
Wt. of Dry Soil	5.19	5.20		7.65	7.49	8.18
Moisture Content %	16.2	16.3		30.8	33.8	36.7

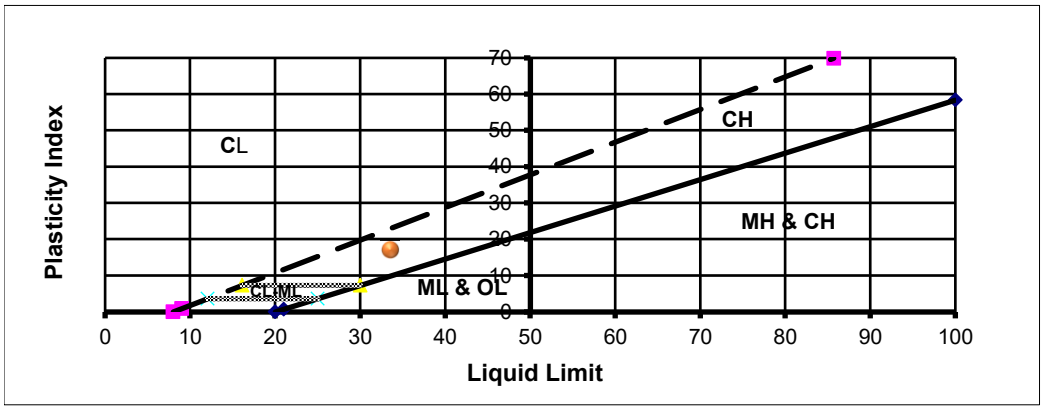
Liquid Limit Graph



Liquid Limit
33

Plastic Limit
16

Plasticity Index
17



GEOTEK

EXPANSION INDEX TEST

(ASTM D4829)

Client:	MLC Holdings	***Tested/ Checked By:***	ADLC Lab No Corona
Project Number:	3743-SD	***Date Tested:***	10/27/2021
Project Location:	4991 Macario Drive	***Sample Source:***	B-1 @ 2.5 - 15 feet
		Sample Description:	

Ring #: _____ Ring Dia. : 4.01" Ring Ht. 1"

DENSITY DETERMINATION

A	Weight of compacted sample & ring (gm)	758.4
B	Weight of ring (gm)	362.0
C	Net weight of sample (gm)	**396.4**
D	Wet Density, lb / ft3 (C*0.3016)	**119.6**
E	Dry Density, lb / ft3 (D/1.F)	**109.0**

SATURATION DETERMINATION

F	Moisture Content, %	9.7
G	Specific Gravity, assumed	**2.70**
H	Unit Wt. of Water @ 20 °C, (pcf)	**62.4**
I	% Saturation	**48.0**

READINGS

DATE	TIME	READING	
10/27/2021		0.1220	Initial
10/27/2021		0.1222	10 min/Dry
10/28/2021		0.1810	Final

FINAL MOISTURE

Final Weight of wet sample & tare	% Moisture
800.2	**20.2**

EXPANSION INDEX = 59

GEOTEK

EXPANSION INDEX TEST

(ASTM D4829)

Client:	MLC Holdings	***Tested/ Checked By:***	ADLC Lab No Corona
Project Number:	3743-SD	***Date Tested:***	10/27/2021
Project Location:	4991 Macario Drive	***Sample Source:***	B-5 @ 0-10 feet
		Sample Description:	

Ring #: _____ Ring Dia. : 4.01" Ring Ht. 1"

DENSITY DETERMINATION

A	Weight of compacted sample & ring (gm)	771.4
B	Weight of ring (gm)	363.0
C	Net weight of sample (gm)	**408.4**
D	Wet Density, lb / ft3 (C*0.3016)	**123.2**
E	Dry Density, lb / ft3 (D/1.F)	**112.4**

SATURATION DETERMINATION

F	Moisture Content, %	9.6
G	Specific Gravity, assumed	**2.70**
H	Unit Wt. of Water @ 20 °C, (pcf)	**62.4**
I	% Saturation	**51.9**

READINGS

DATE	TIME	READING	
10/27/2021		0.3490	Initial
10/27/2021		0.3500	10 min/Dry
10/28/2021		0.3930	Final

FINAL MOISTURE

Final Weight of wet sample & tare	% Moisture
800.4	**16.7**

EXPANSION INDEX = 43

GEOTEK

-200 WASH

Date:
W.O.: 3743-SD sample ID B-1
Client: MLC Holdings depth 2.5 - 15 feet
Project: 4991 Macario Drive

Sieve Size	Particle Diameter		Wt. Retained	Wt. Passing	% Passing	Specs
	in.	mm.				
#200	0.0029	0.074	169.3	109.2	39.2%	

Dry Weight 278.5

Soak Time 1440 Minutes

GEOTEK

-200 WASH

Date:
W.O.: 3743-SD sample ID B-5
Client: MLC Holdings depth 0-10 feet
Project: 4991 Macario Drive

Sieve Size	Particle Diameter		Wt. Retained	Wt. Passing	% Passing	Specs
	in.	mm.				
#200	0.0029	0.074	207.6	68.6	24.8%	

Dry Weight 276.2

Soak Time 1440 Minutes

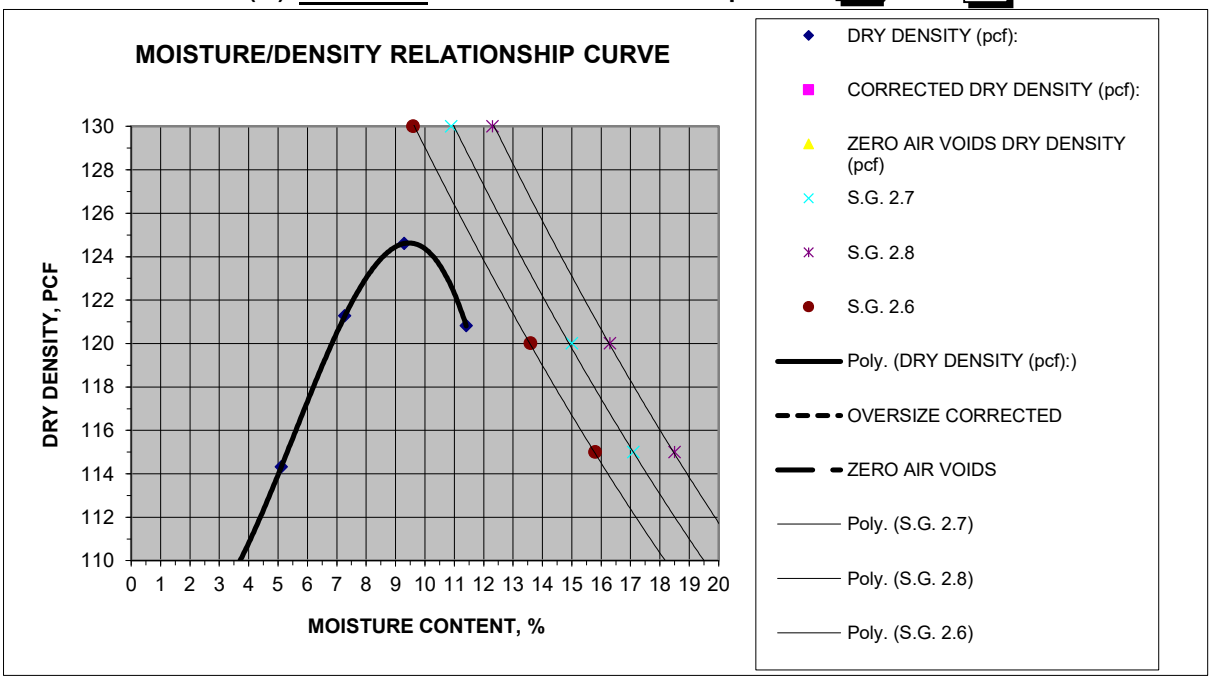
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holdings	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	Corona
Location:	-		
Material Type:	Gray-brown silty sand with some clay		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-1 @ 2.5-15 feet		
	-		
Sampled By:	MSB	**Date Sampled:**	10/6/2021
Received By:	ADLC	**Date Received:**	10/6/2021
Tested By:	ADLC	**Date Tested:**	10/26/2021
Reviewed By:	DA	**Date Reviewed:**	11/8/2021

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.1 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	124.6	**@ Optimum Moisture, %**	9.5
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

GEOTEK

MOISTURE/DENSITY RELATIONSHIP

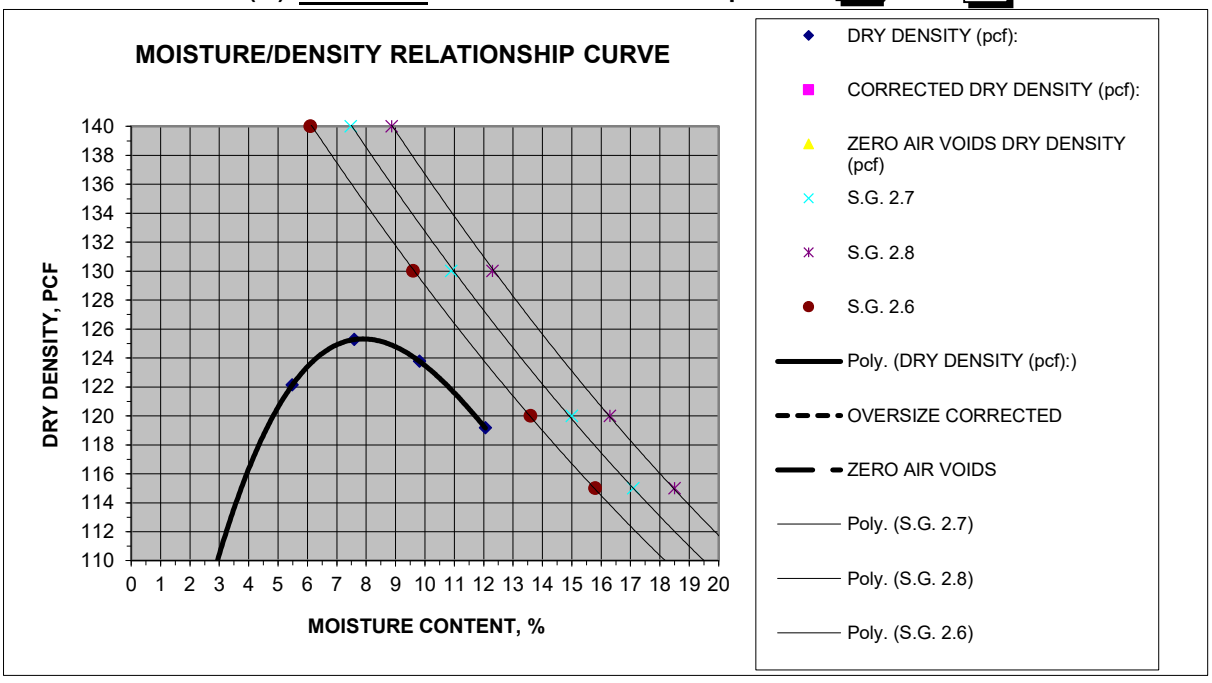
Client: MLC Holdings
Project: 4991 Macario Drive
Location: -
Material Type: Gray-brown silty sand with some clay
Material Supplier: -
Material Source: -
Sample Location: B-3 @ 0-15 feet
-

Job No.: 3743-SD
Lab No.: Corona

Sampled By: MSB
Received By: ADLC
Tested By: ADLC
Reviewed By: DA

Date Sampled: 10/6/2021
Date Received: 10/6/2021
Date Tested: 10/26/2021
Date Reviewed: 11/8/2021

Test Procedure: ASTM D1557 **Method:** A
Oversized Material (%): 0.1 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	125.5	**@ Optimum Moisture, %**	8.0
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:
AASHTO Soils Classification:

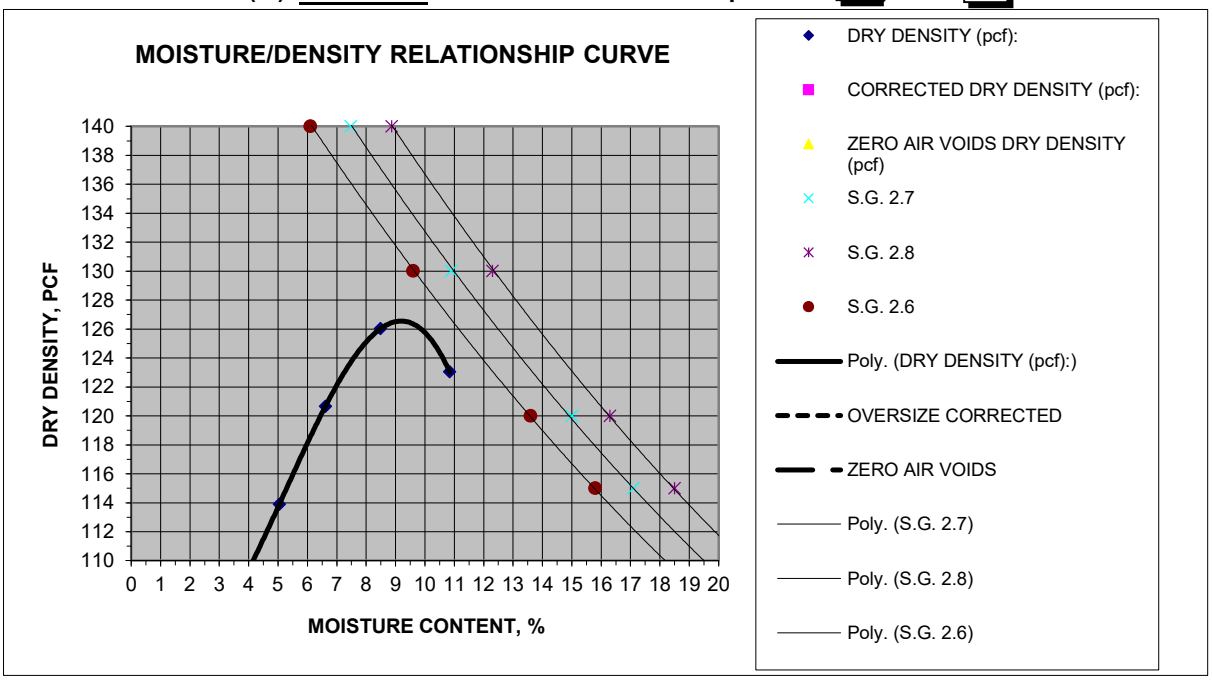
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holdings	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	Corona
Location:	-		
Material Type:	Gray-brown silty sand with some clay		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-4 @ 1-10 feet		
	-		
Sampled By:	MSB	**Date Sampled:**	10/6/2021
Received By:	ADLC	**Date Received:**	10/6/2021
Tested By:	ADLC	**Date Tested:**	10/26/2021
Reviewed By:	DA	**Date Reviewed:**	11/8/2021

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.5 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	126.5	**@ Optimum Moisture, %**	9.2
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

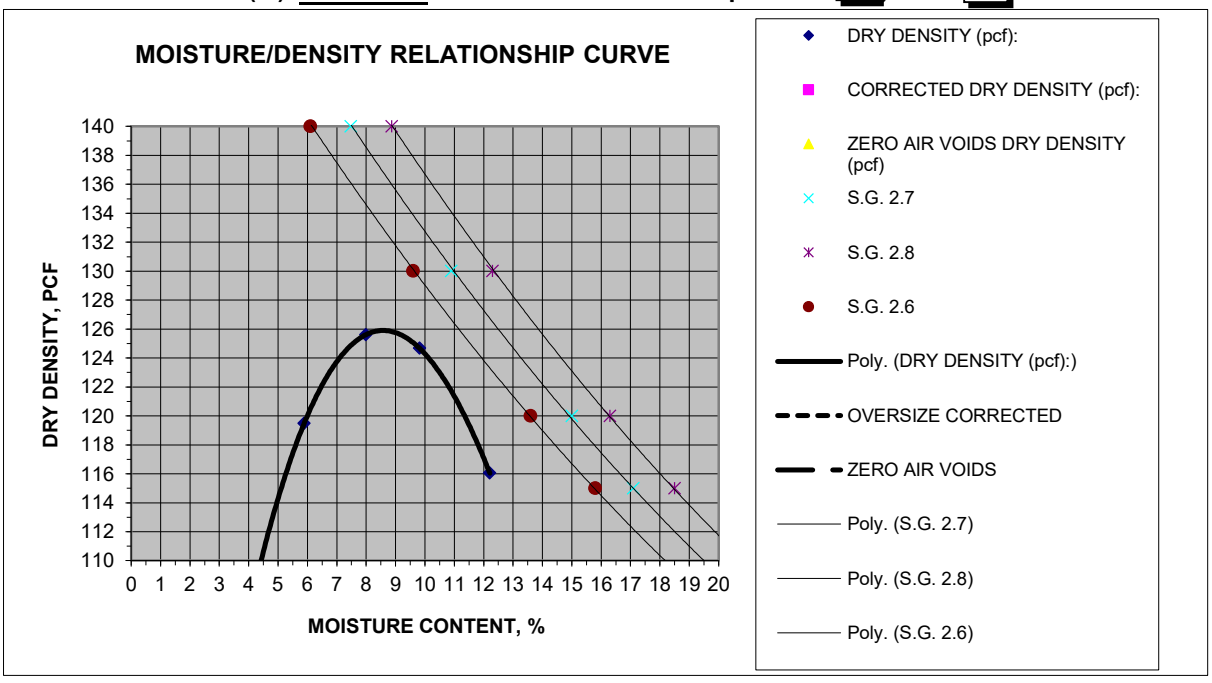
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holdings	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	Corona
Location:	-		
Material Type:	Gray-brown silty sand with some clay		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-5 @ 0-10 feet		
	-		
Sampled By:	MSB	**Date Sampled:**	10/6/2021
Received By:	ADLC	**Date Received:**	10/6/2021
Tested By:	ADLC	**Date Tested:**	10/26/2021
Reviewed By:	DA	**Date Reviewed:**	11/8/2021

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 1.3 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	126.0	**@ Optimum Moisture, %**	8.5
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

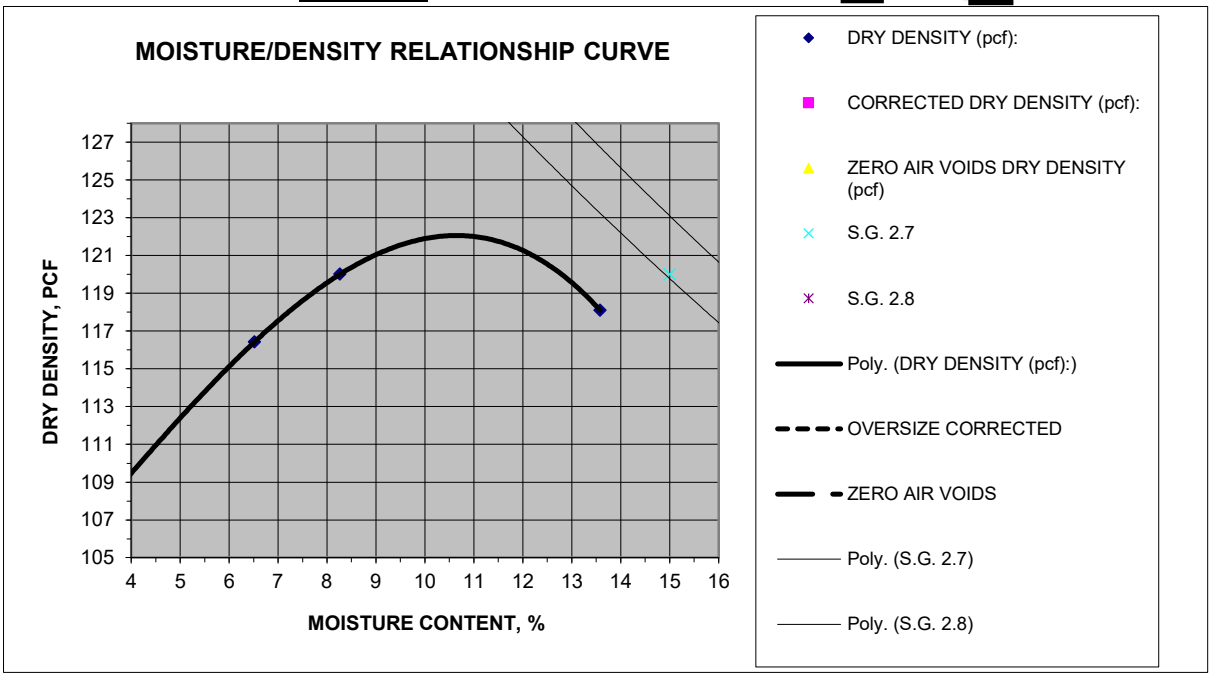
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holding, Inc.	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	3643
Location:	Oceanside, California		
Material Type:	Yellow-Brown Clayey F-M Sand		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-6		
	-		
Sampled By:	MSB	**Date Sampled:**	11/4/2021
Received By:	MRB	**Date Received:**	11/4/2021
Tested By:	MRB	**Date Tested:**	11/23/2021
Reviewed By:	CDL	**Date Reviewed:**	-

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.0 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	122.0	**@ Optimum Moisture, %**	10.7
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

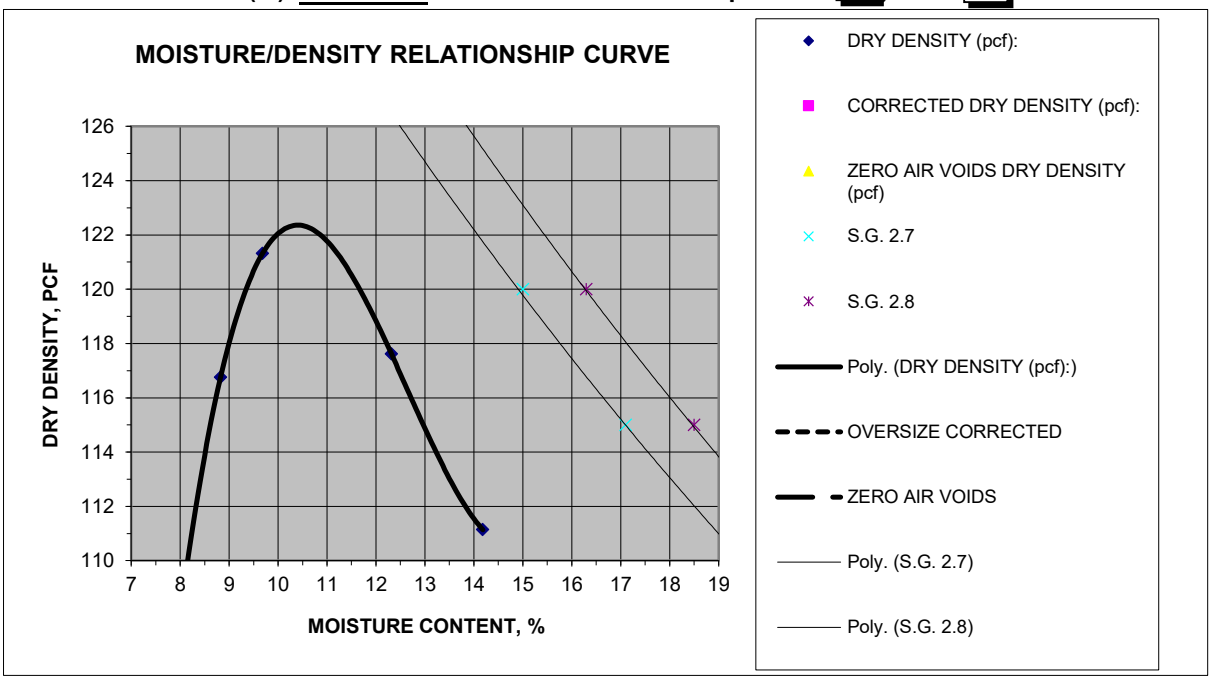
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holding, Inc.	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	3653
Location:	Oceanside, California		
Material Type:	Yellow-Brown Clayey F-M Sand		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-10		
	-		
Sampled By:	MSB	**Date Sampled:**	11/4/2021
Received By:	MRB	**Date Received:**	11/4/2021
Tested By:	MRB	**Date Tested:**	11/23/2021
Reviewed By:	CDL	**Date Reviewed:**	-

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.0 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	122.3	**@ Optimum Moisture, %**	10.2
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

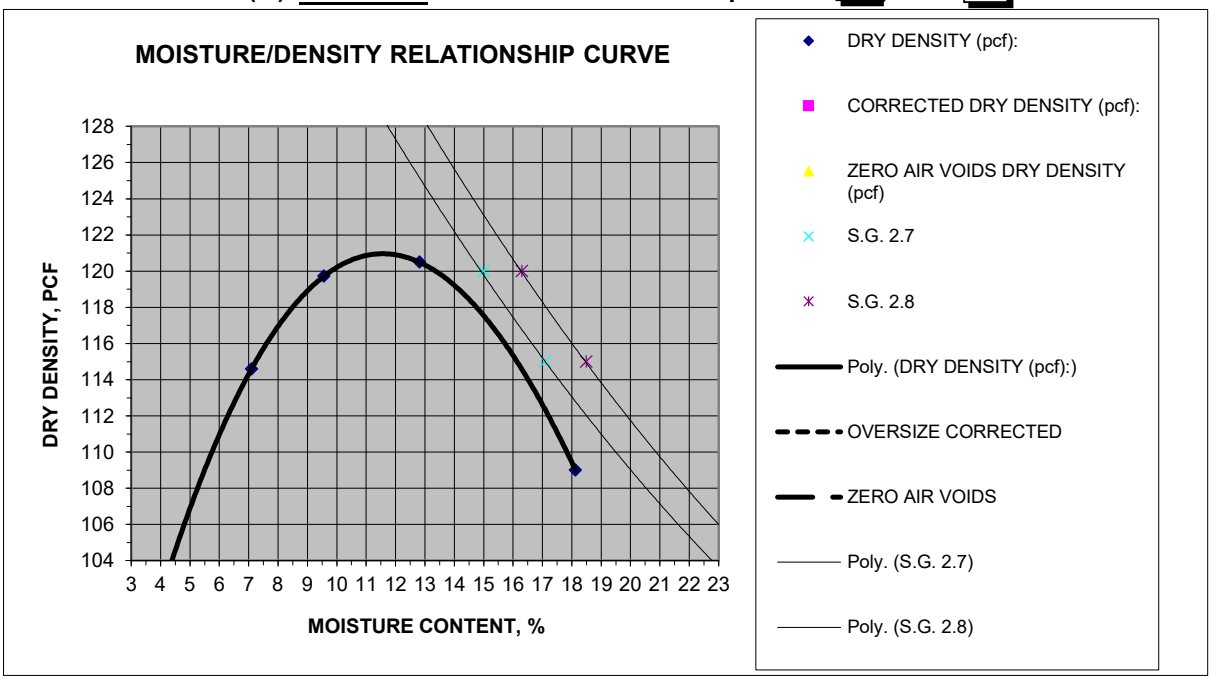
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holding, Inc.	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	3631
Location:	Oceanside, California		
Material Type:	Yellow-Brown Clayey F-M Sand w/Asphalt		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-11		
	-		
Sampled By:	MSB	**Date Sampled:**	11/4/2021
Received By:	MRB	**Date Received:**	11/4/2021
Tested By:	MRB	**Date Tested:**	11/19/2021
Reviewed By:	CDL	**Date Reviewed:**	-

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 3.5 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	121.0	**@ Optimum Moisture, %**	11.5
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

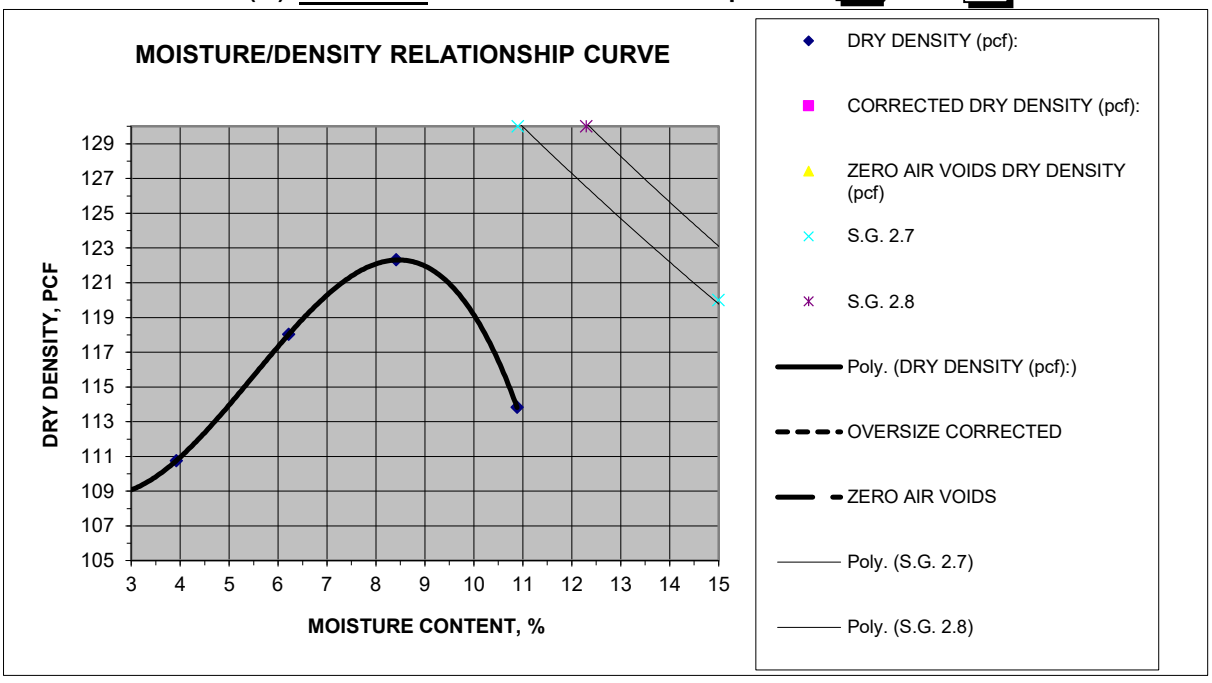
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holding, Inc.	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	3632
Location:	Oceanside, California		
Material Type:	Yellow-Brown Clayey F-M Sand		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-12		
	-		
Sampled By:	MSB	**Date Sampled:**	11/4/2021
Received By:	MRB	**Date Received:**	11/4/2021
Tested By:	MRB	**Date Tested:**	11/19/2021
Reviewed By:	CDL	**Date Reviewed:**	-

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.0 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	122.5	**@ Optimum Moisture, %**	8.5
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

Classification:

Unified Soils Classification:

AASHTO Soils Classification:

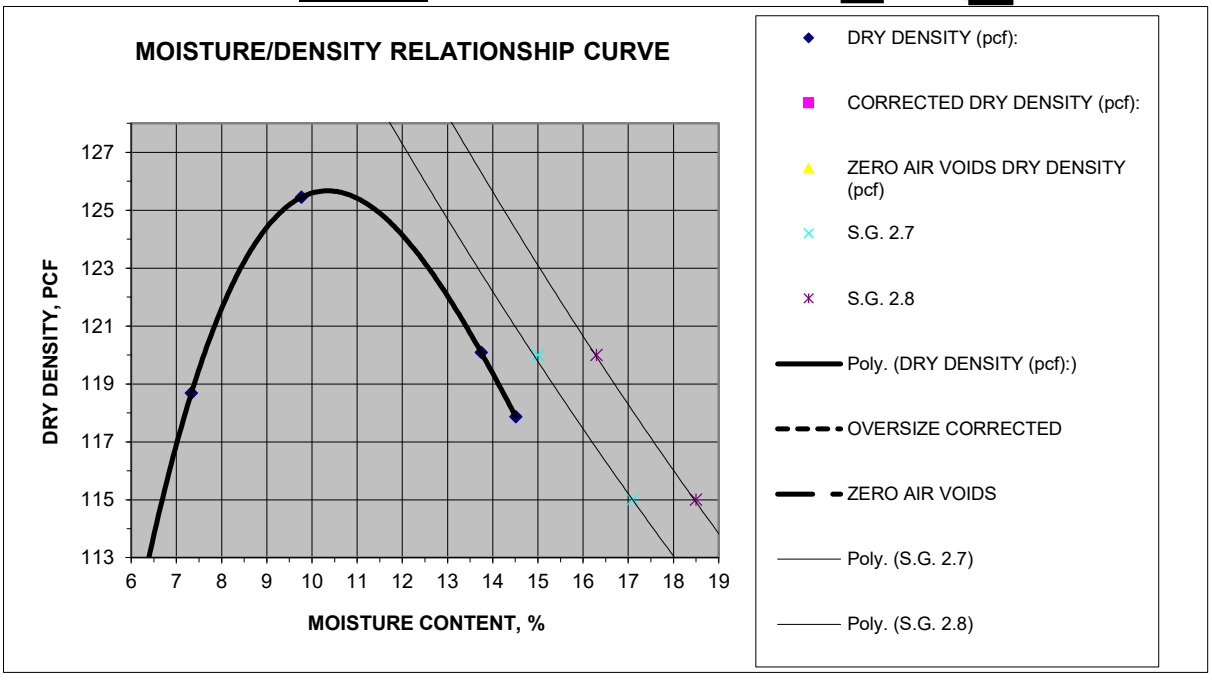
GEOTEK

MOISTURE/DENSITY RELATIONSHIP

Client:	MLC Holding, Inc.	**Job No.:**	3743-SD
Project:	4991 Macario Drive	**Lab No.:**	3632
Location:	Oceanside, California		
Material Type:	Yellow-Brown Clayey F-M Sand		
Material Supplier:	-		
Material Source:	-		
Sample Location:	B-13		
	-		
Sampled By:	MSB	**Date Sampled:**	11/4/2021
Received By:	MRB	**Date Received:**	11/4/2021
Tested By:	MRB	**Date Tested:**	11/19/2021
Reviewed By:	CDL	**Date Reviewed:**	-

Test Procedure: ASTM D1557 **Method:** A

Oversized Material (%): 0.0 **Correction Required:** [ ] yes [x] no



MOISTURE DENSITY RELATIONSHIP VALUES

Maximum Dry Density, pcf	125.5	**@ Optimum Moisture, %**	10.5
Corrected Maximum Dry Density, pcf		**@ Optimum Moisture, %**	

MATERIAL DESCRIPTION

Grain Size Distribution:

	% Gravel (retained on No. 4)
	% Sand (Passing No. 4, Retained on No. 200)
	% Silt and Clay (Passing No. 200)

Atterberg Limits:

	Liquid Limit, %
	Plastic Limit, %
	Plasticity Index, %

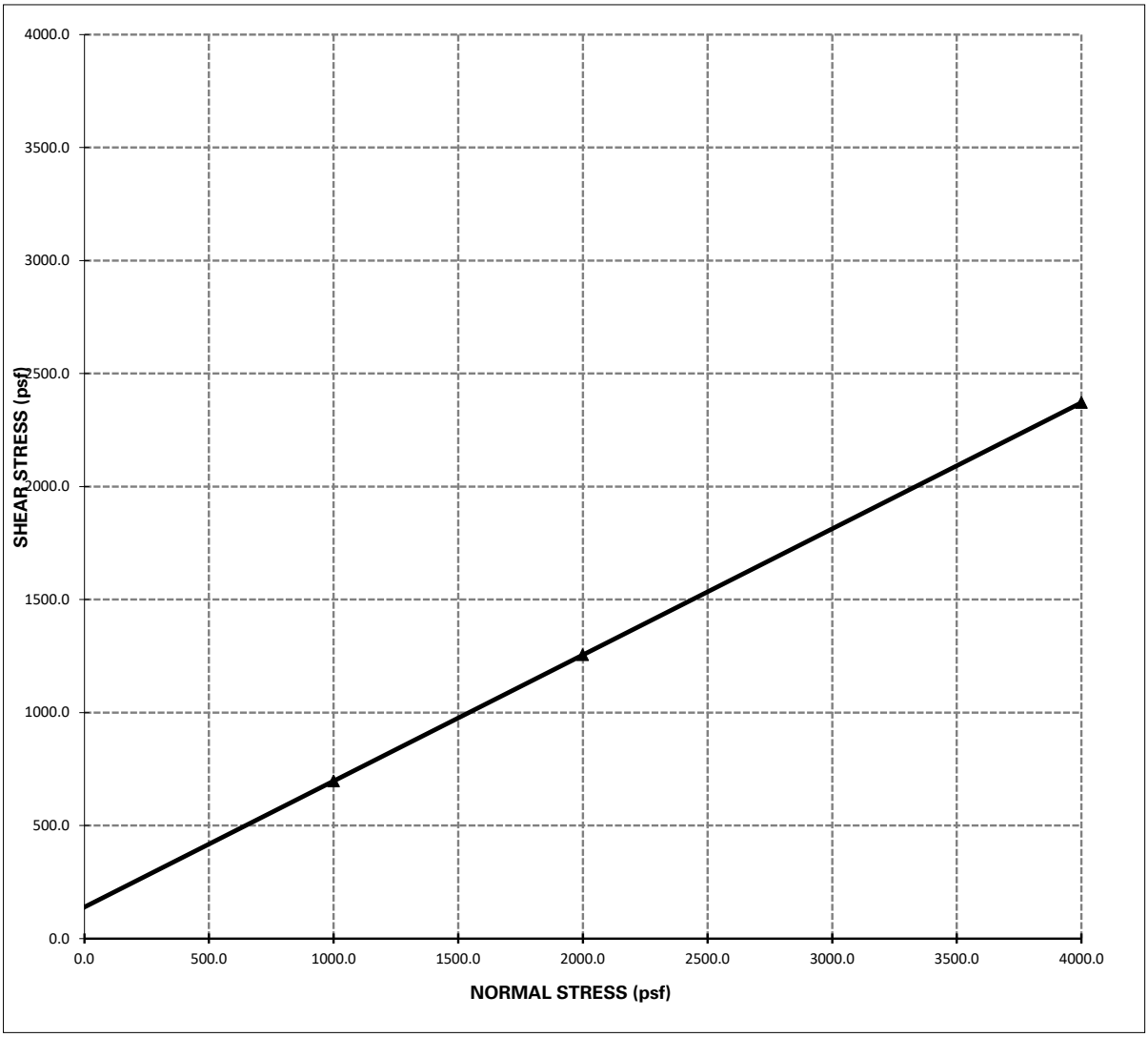
Classification:

Unified Soils Classification:

AASHTO Soils Classification:

DIRECT SHEAR TEST

Project Name:	4991 Macario Drive	***Sample Location:***	B-3 @ 0-15 feet
Project Number:	3743-SD	***Date Tested:***	11/3/2021



Shear Strength: Φ = **29°** , **C = 139 psf**

Notes: 1 - The soil specimen used in the shear box was a ring sample remolded to approximately 90% relative compaction from a bulk sample collected during the field investigation.

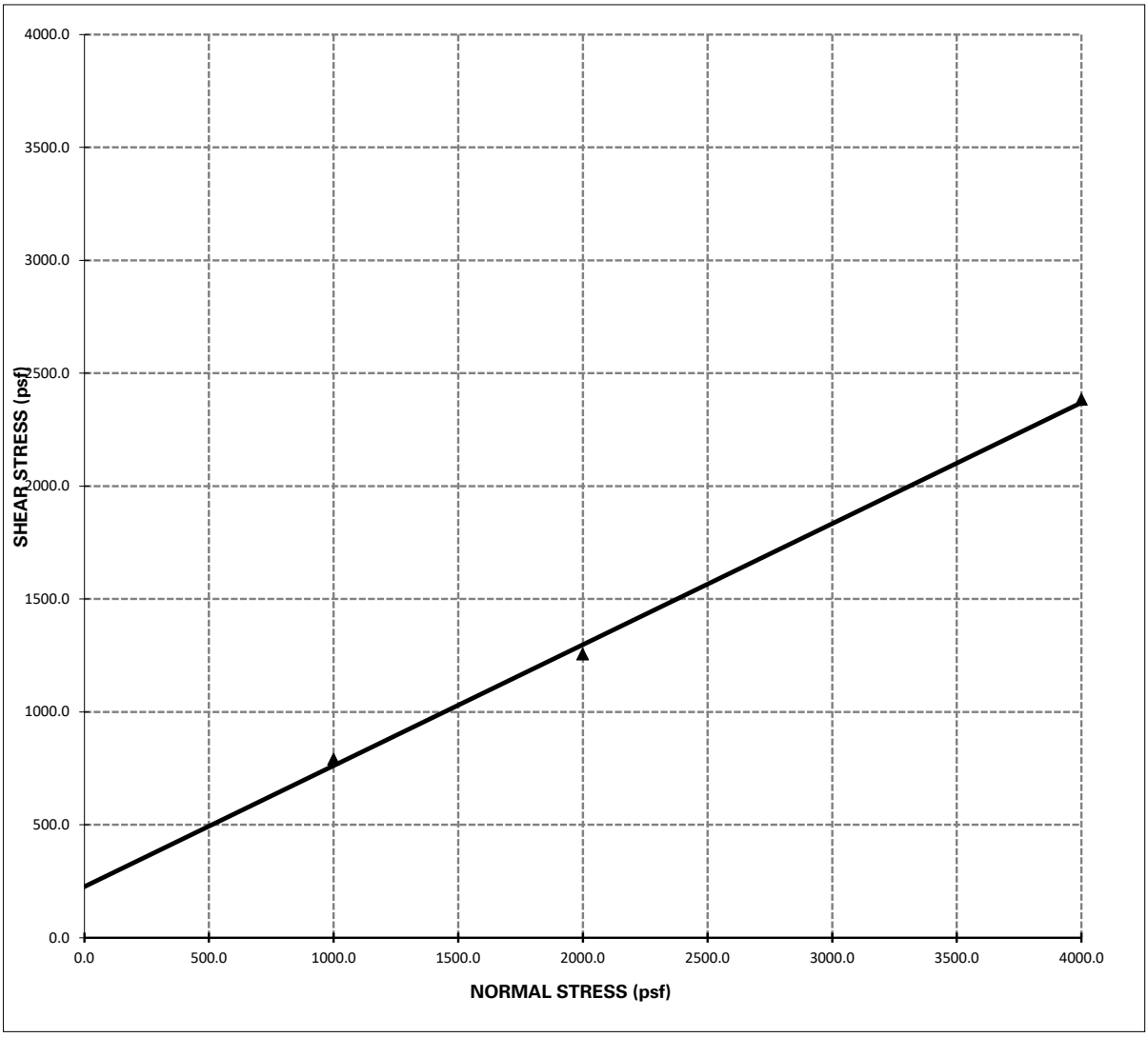
2 - The above reflect direct shear strength at saturated conditions.

3 - The tests were run at a shear rate of 0.01 in/min.

DIRECT SHEAR TEST

Project Name:	4991 Macario Drive	***Sample Location:***	B-3 @ 0-15 feet
Project Number:	3743-SD	***Date Tested:***	11/3/2021

PEAK VALUE

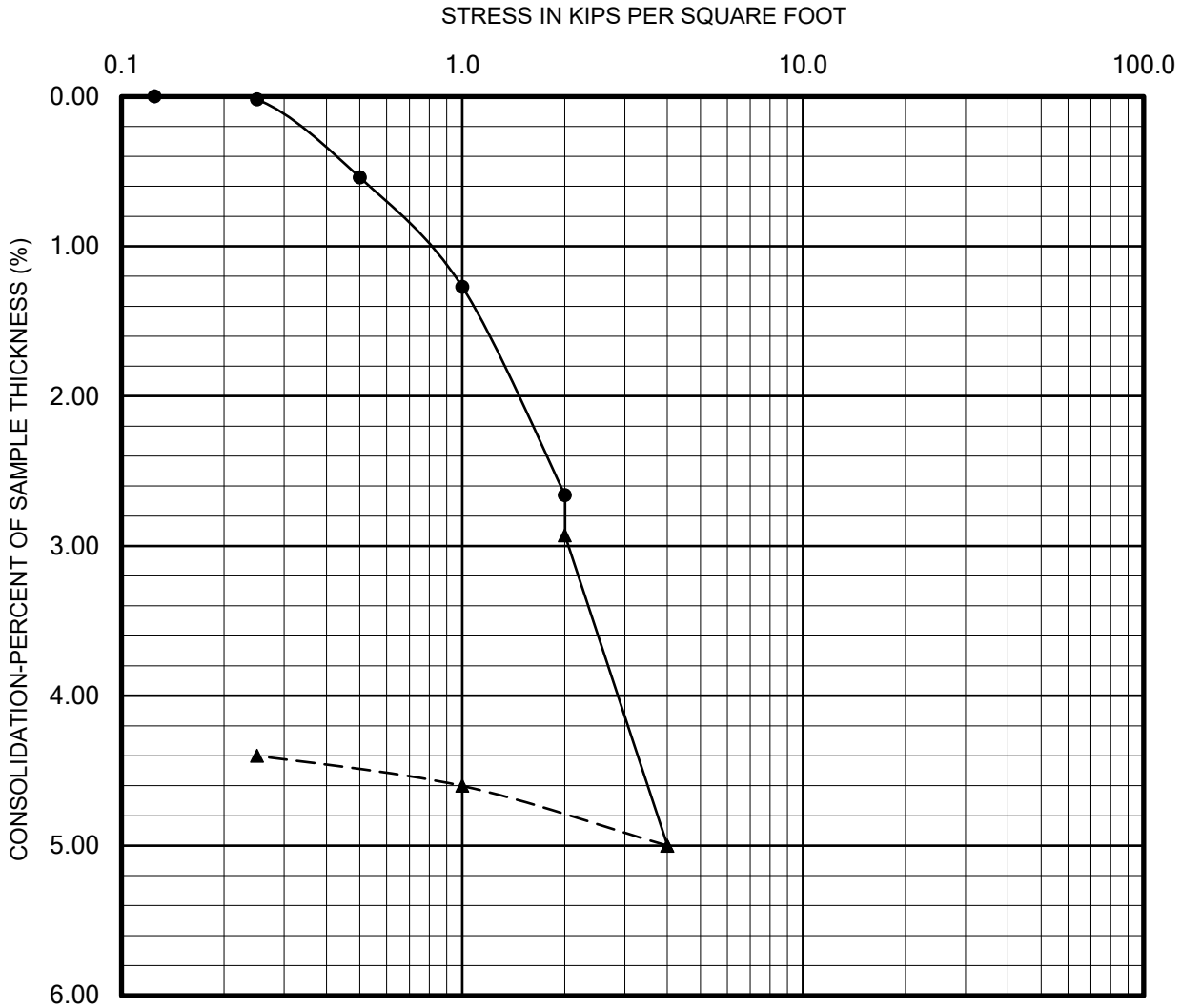


Shear Strength: Φ = **29°** , **C = 139 psf**

Notes: 1 - The soil specimen used in the shear box was a ring sample remolded to approximately 90% relative compaction from a bulk sample collected during the field investigation.

2 - The above reflect direct shear strength at saturated conditions.

3 - The tests were run at a shear rate of 0.01 in/min.



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

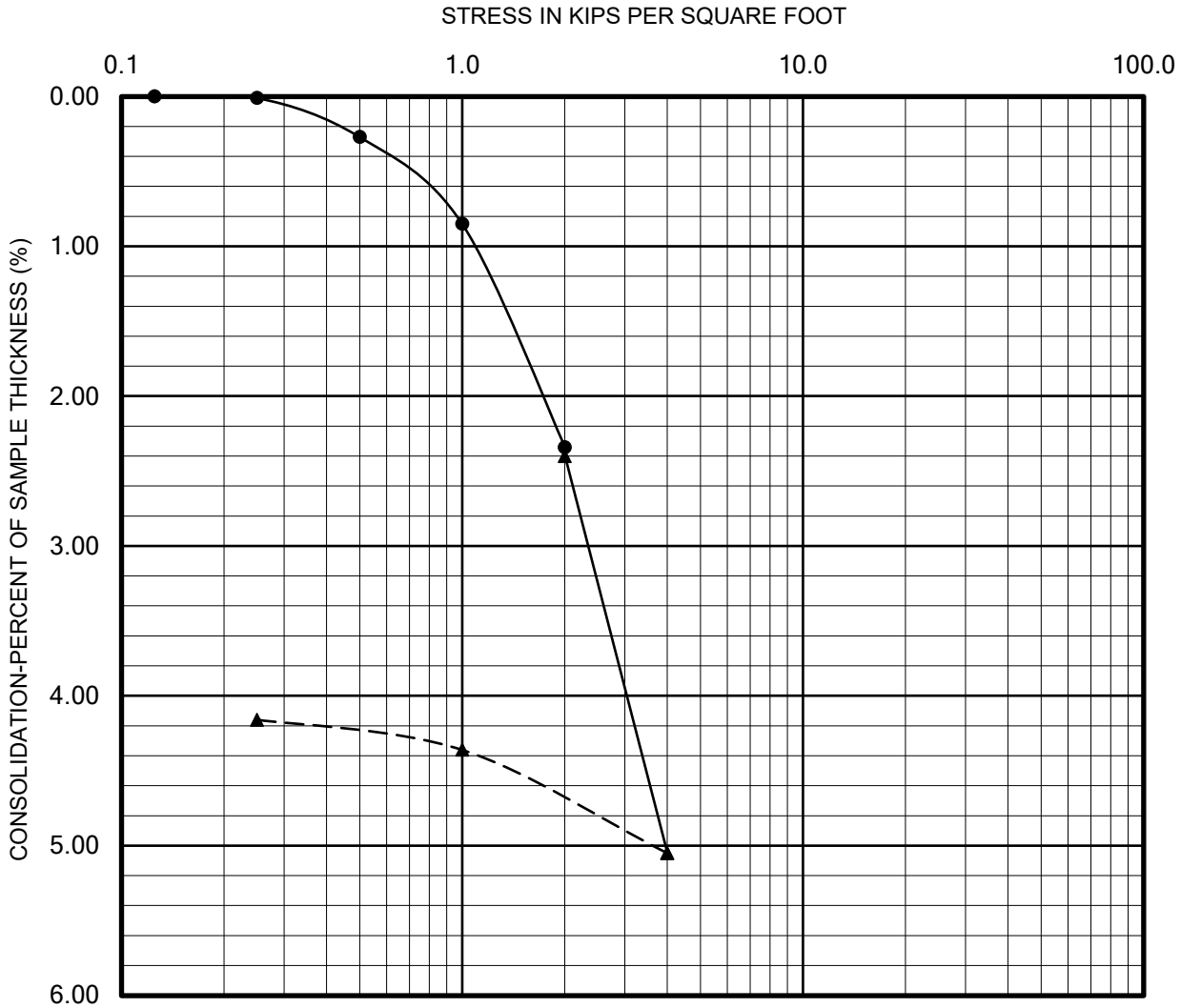
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-1 @ 5 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

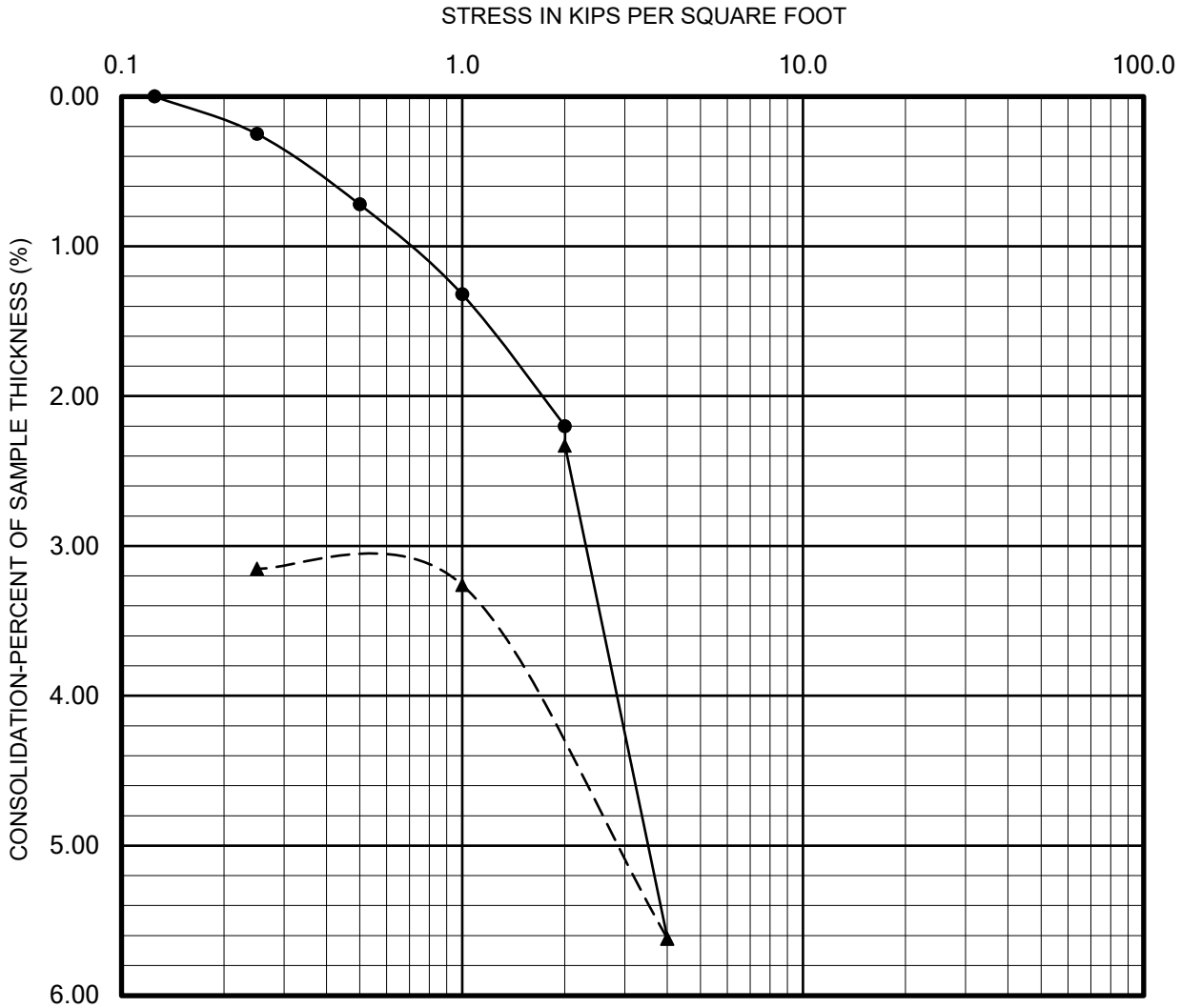
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-1 @ 12.5 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

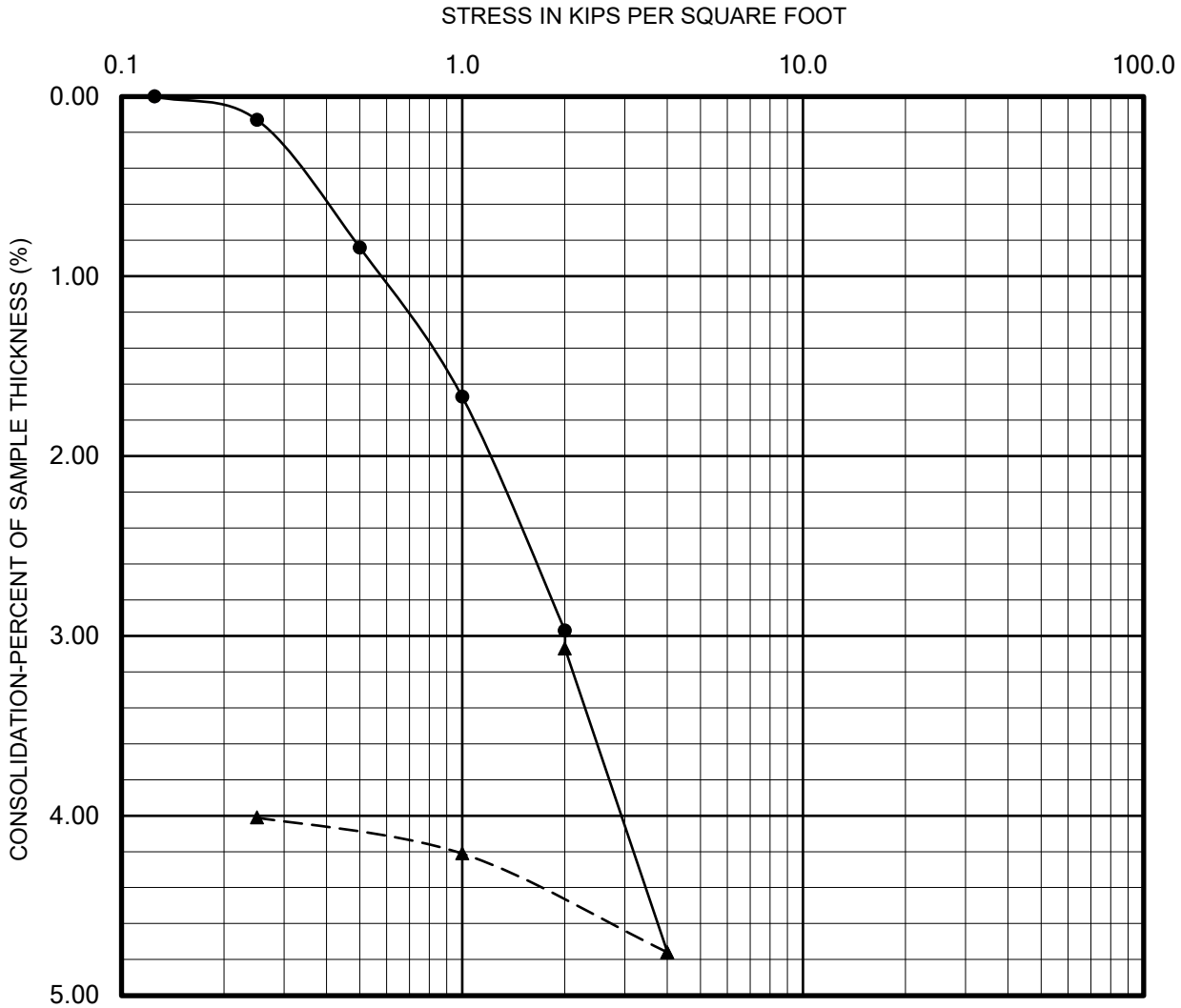
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-1 @ 17.5 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

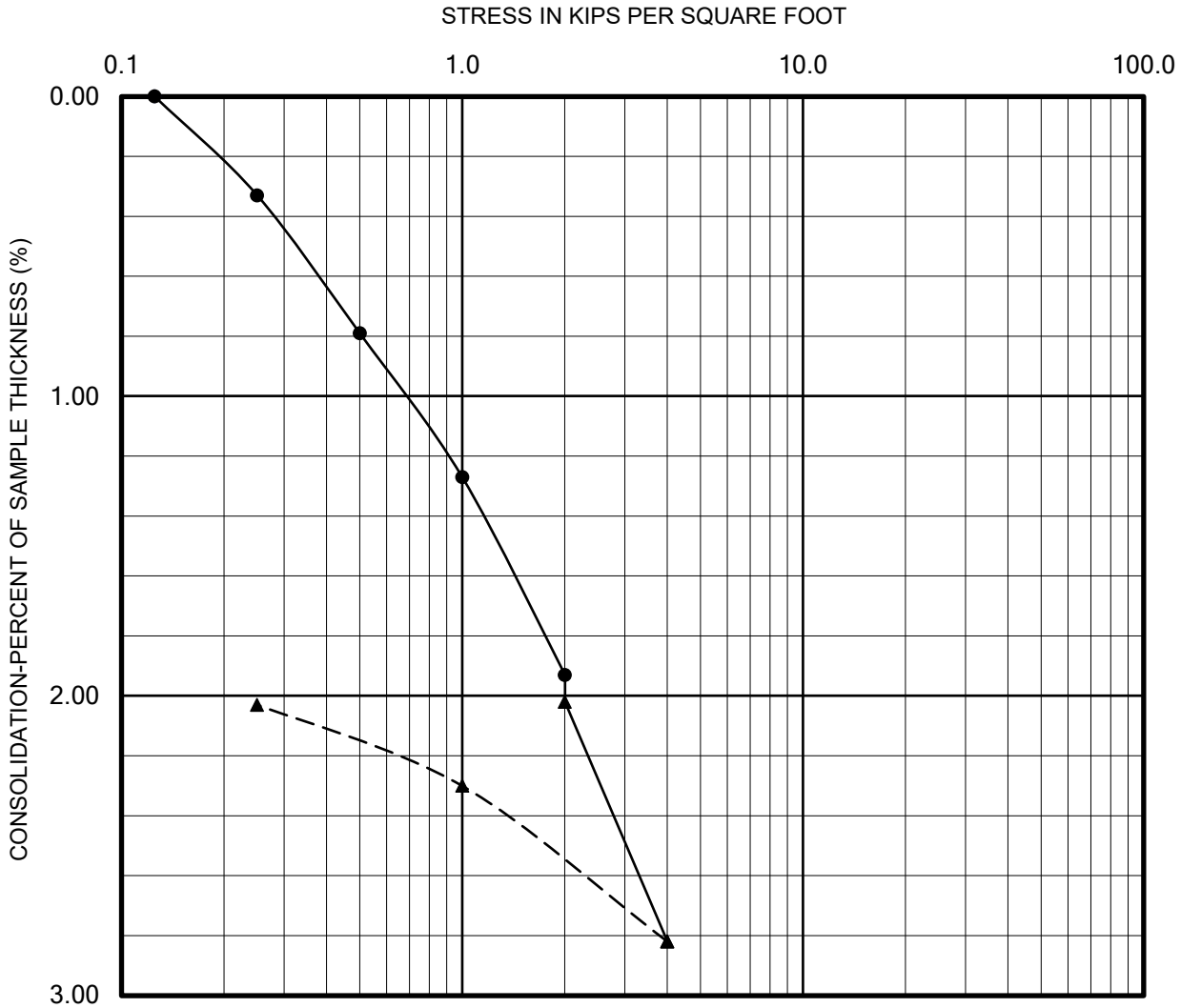
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-3 @ 10 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

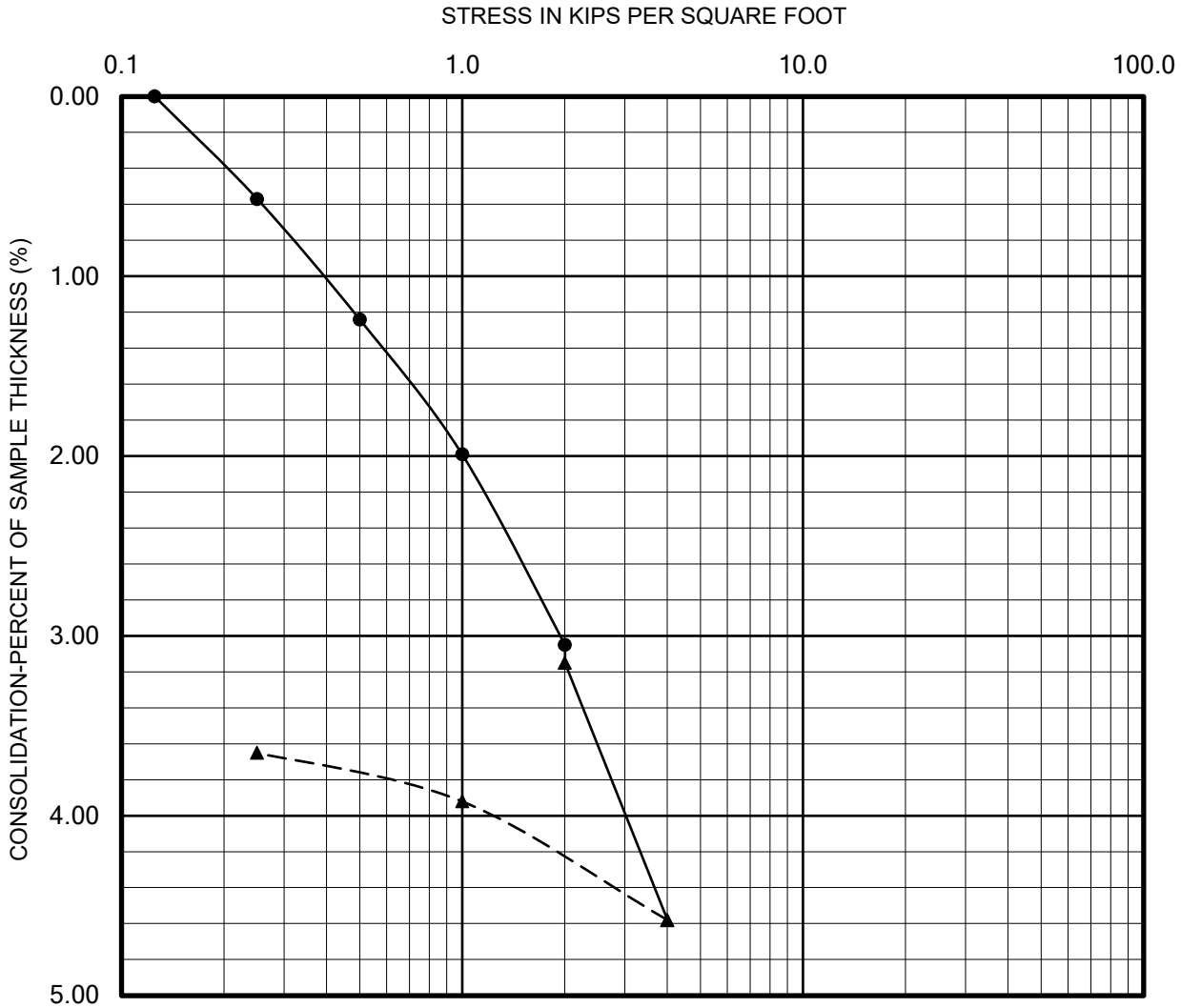
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-3 @ 15 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

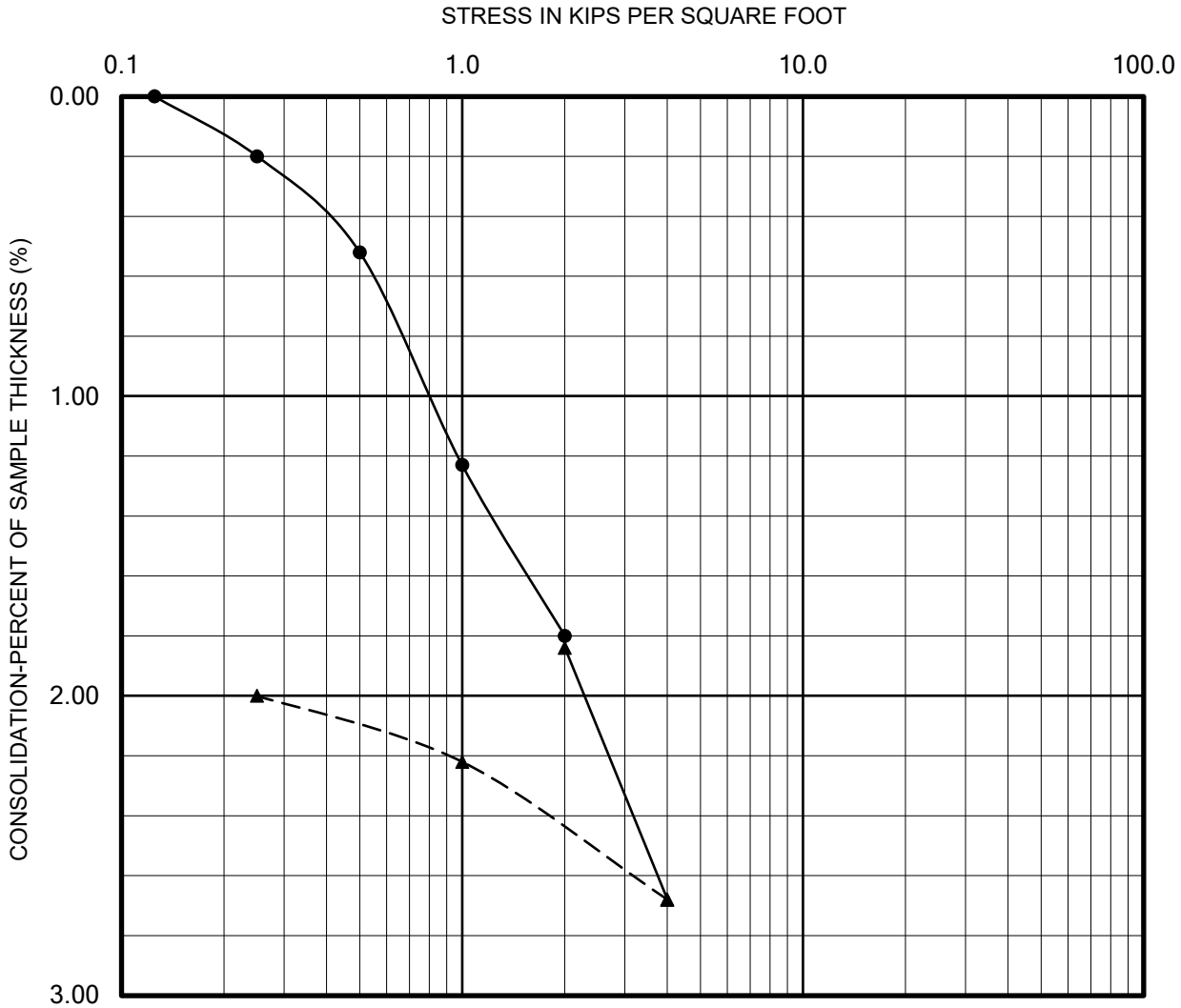
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-4 @ 10 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021



Seating Cycle
Loading Prior to Inundation
Loading After Inundation
Rebound Cycle

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

GEOTEK

CONSOLIDATION REPORT

Sample: B-4 @ 15 feet

CHECKED BY: DA	Lab: Corona
PROJECT NO.: 3743-SD	Date: 11/8/2021

DocuSign Envelope ID: 1CE99FEB-7C1F-4F91-A02D-A891FF5E2FDF

• ANALYSIS
• DESIGN

LaBelle • Marvin

• SOILS, ASPHALT TECHNOLOGY

PROFESSIONAL PAVEMENT ENGINEERING
A CALIFORNIA CORPORATION

October 25, 2021

Mr. Chris Livesey
GeoTek Inc.
1384 Poinsettia Avenue Suite A
Vista, CA 92081-8505

Project No. 47713

Dear Mr. Livesey:

Laboratory testing of the bulk soil sample delivered to our laboratory on 10/21/2021 has been completed.

Reference: W.O. # 3743-SD
Project: MLC Holdings, 4991 Macarijo Drive
Sample: B-3 @ 0'-15'

Data sheets and graphical presentations are transmitted herewith for your use and information. Any untested portion of the samples will be retained for a period of sixty (60) days prior to disposal. The opportunity to be of service is appreciated, and should you have any questions, kindly call.

Very truly yours,

REGISTERED PROFESSIONAL ENGINEER
STEVEN R. MARVIN
DocuSigned by:
NO. 30659
D9A356504F9B448...
CIVIL
STATE OF CALIFORNIA

Steven R. Marvin
RCE 30659

SRM:tw
Enclosures

2700 S. GRAND AVENUE • SANTA ANA, CA 92705-5404 • (714) 546-3468 • FAX (714) 546-5841
INFO@LABELLEMARVIN.COM

DocuSign Envelope ID: 1CE99FEB-7C1F-4F91-A02D-A891FF5E2FDF

LaBelle Marvin

R - VALUE DATA SHEET

PROJECT No. 47713

DATE: 10/25/2021

BORING NO. B-3 @ 0'-15'

MLC Holdings, 4991 Macarijo Drive

W.O.# 3743-SD

SAMPLE DESCRIPTION: Brown Sandy Clay

R-VALUE TESTING DATA | CA TEST 301

	SPECIMEN ID		
	a	b	c
Mold ID Number	13	14	15
Water added, grams	110	79	64
Initial Test Water, %	16.0	12.9	11.4
Compact Gage Pressure,psi	40	85	170
Exudation Pressure, psi	249	427	624
Height Sample, Inches	2.65	2.49	2.41
Gross Weight Mold, grams	3105	3040	3025
Tare Weight Mold, grams	1966	1937	1941
Sample Wet Weight, grams	1139	1103	1084
Expansion, Inches x 10exp-4	7	39	87
Stability 2,000 lbs (160psi)	64 / 135	34 / 77	25 / 57
Turns Displacement	4.40	3.90	3.65
R-Value Uncorrected	10	41	55
R-Value Corrected	11	41	53
Dry Density, pcf	112.2	118.9	122.3

DESIGN CALCULATION DATA

Traffic Index Assumed:	4.0	4.0	4.0
G.E. by Stability	0.91	0.60	0.48
G. E. by Expansion	0.23	1.30	2.90

Equilibrium R-Value	**25** by EXUDATION	Examined & Checked: 10 /25/ 21
REMARKS:	Gf = 1.25 0.0% Retained on the 3/4" Sieve.	REGISTERED PROFESSIONAL ENGINEER STEVEN R. MARVIN NO. 30659 CIVIL STATE OF CALIFORNIA DocuSigned by: D9A356504F9B448... Steven R. Marvin, RCE 30659

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301.

R-VALUE GRAPHICAL PRESENTATION

PROJECT NO. 47713

DATE: 10 /25/ 2021

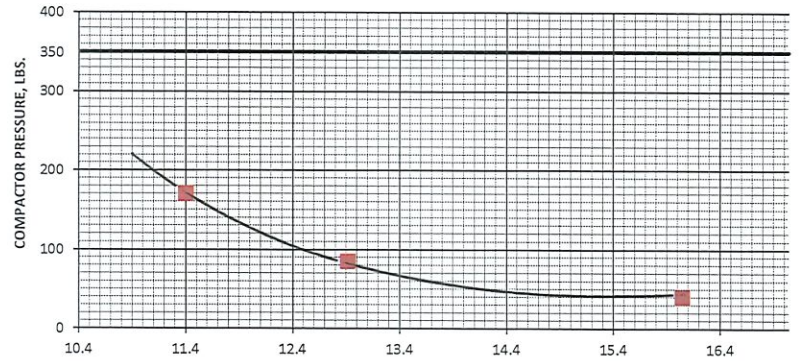
REMARKS:

BORING NO. B-3 @ 0'-15'

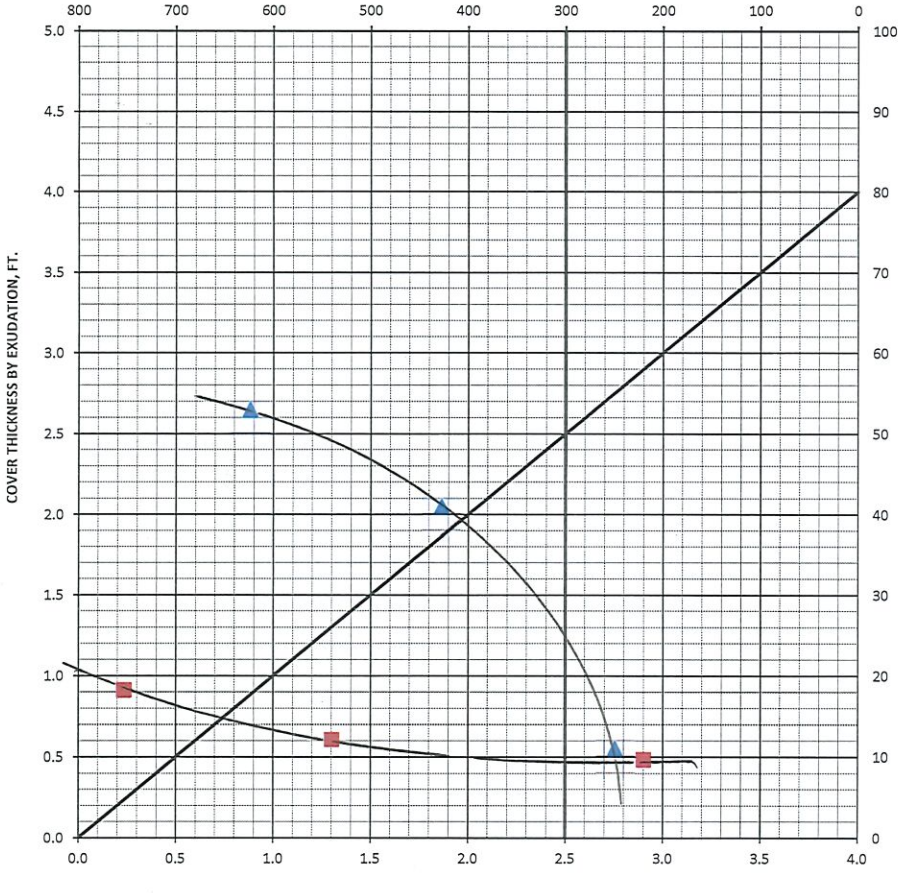
MLC Holdings, 4991 Macarijo Drive

W.O.# 3743-SD

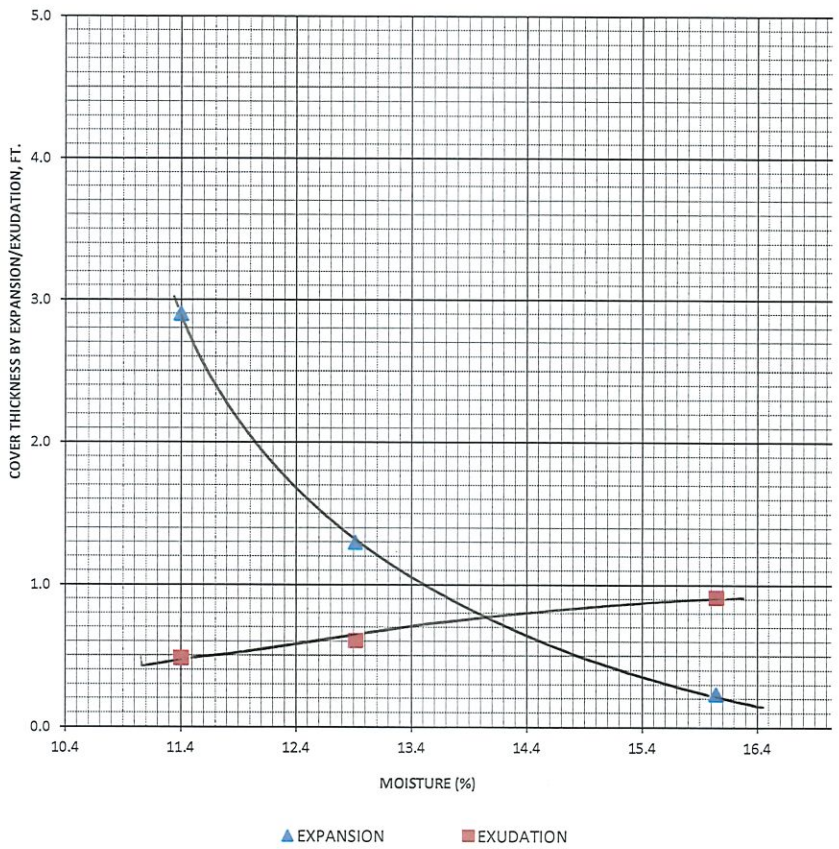
COMPACTOR PRESSURE vs MOISTURE %



COVER THICKNESS BY EXUDATION vs COVER THICKNESS BY EXPANSION



COVER THICKNESS vs MOISTURE %



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Results Only Soil Testing for 4991 Macario Drive

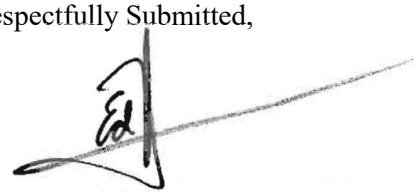
October 25, 2021

Prepared for:

Bruce Hick
GeoTek, Inc.
1548 North Maple Street
Corona, CA 92280
bhick@geotekusa.com

Project X Job#: S211022G
Client Job or PO#: 3743-SD

Respectfully Submitted,



Eduardo Hernandez, M.Sc., P.E.
Sr. Corrosion Consultant
NACE Corrosion Technologist #16592
Professional Engineer
California No. M37102
ehernandez@projectxcorrosion.com

Soil Analysis Lab Results

Client: GeoTek, Inc.
Job Name: 4991 Macario Drive
Client Job Number: 3743-SD
Project X Job Number: S211022G
October 25, 2021

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM D4972	ASTM G200	ASTM D4658	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd | Minimum		**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Fluoride** F_2^-	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
3743-SD B1 BB-1	2.5-15	191.2	0.0191	58.9	0.0059	11,390	1,273	8.6	79	0.30	6.6	13.2	ND	180.1	0.7	37.2	19.4	8.3	4.2
3743-SD B5 BB-1	0-10	93.0	0.0093	20.6	0.0021	6,901	2,412	9.1	57	0.56	19.1	3.0	ND	128.4	3.6	63.8	27.6	5.8	7.1

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

Project X
Corrosion Engineering
Corrosion Control - Soil, Water, and Metallurgy Lab

Lab Request Sheet Chain of Custody
Phone: (213) 928-7213 · Fax (951) 226-1720 · www.projectxcorrosion.com

Ship Samples To: 29990 Technology Dr, Suite 13, Murrieta, CA 92563

Project X Job Number: S211022G Geotek 3743-SD 4991-Macario 2 Full

IMPORTANT: Please complete Project and Sample Identification Data as you would like it to appear in report & include this form with samples.

Company Name:	Geotek USA	Contact Name:	Bruce Hick
Phone No:	661-233-5229		
Mailing Address:	1548 N. Maple Ave. Corona, CA	Contact Email:	bhick@geotekusa.com
Accounting Contact:		Invoice Email:	bhick@geotekusa.com
Client Project No:	MLC Holdings, Inc	Project Name:	4991 Macario Drive
P.O. #:			

	3-5 Day Standard	3 Day Guarantee 50% mark-up	2 Day RUSH 100% mark-up
(Business Days) Turn Around Time:	✓		

Results By: ☐ Phone ☐ Fax ☑ Email

Date & Received by: 10/22/21

Default Method

Special Instructions:

ANALYSIS REQUESTED (Please circle)

	SAMPLE ID - BORE #	DEPTH (ft)	DATE COLLECTED	Soil Resistivity (Caltrans CTM643, AASHTO T2888, ASTM G187)	pH (Caltrans CTM643, AASHTO T289, ASTM G51)	Sulfate (Caltrans CTM417, AASHTO T290, ASTM D4327)	Chloride (Caltrans CTM422, AASHTO T291, ASTM D4327)	Redox Potential (SM 2580B, ASTM G200)	Sulfide (SM 4500-S2)	Ammonia (SM 4500-NH3, ASTM D4327)	Nitrate (SM 4500-NO3, ASTM D4327)	Flouride (SM 2320B)	Phosphate (ASTM D4327)	Lithium (ASTM D4327)	Sodium (ASTM D4327)	Potassium (ASTM D4327)	Magnesium (ASTM D4327)	Calcium (ASTM D4327)	BiCarbonate (SM 2320B)	Full Corrosion Series	Soil Corrosivity Evaluation Report (*Req: Min. 3 Samples, site map, and groundwater info)	Water Corrosivity Mini Report	Moisture Content (ASTM D2216)	Total Alkalinity (SM 2520B)	Thermal Resistivity (IEEE 442, ASTM D5334)	(ANC) Alk Neutr Cap	(SRB) Sulfate Reducing (HACH BART)	Puckorius Index	XRF Elemental Analysis (ASTM E1621, ASTM E322, ASTM A751)	Water Hardness
1	3743-SD B1 BB-1	2.5-15'																		✓										
2	3743-SD B5 BB-1	0-10'																												
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														

234
235

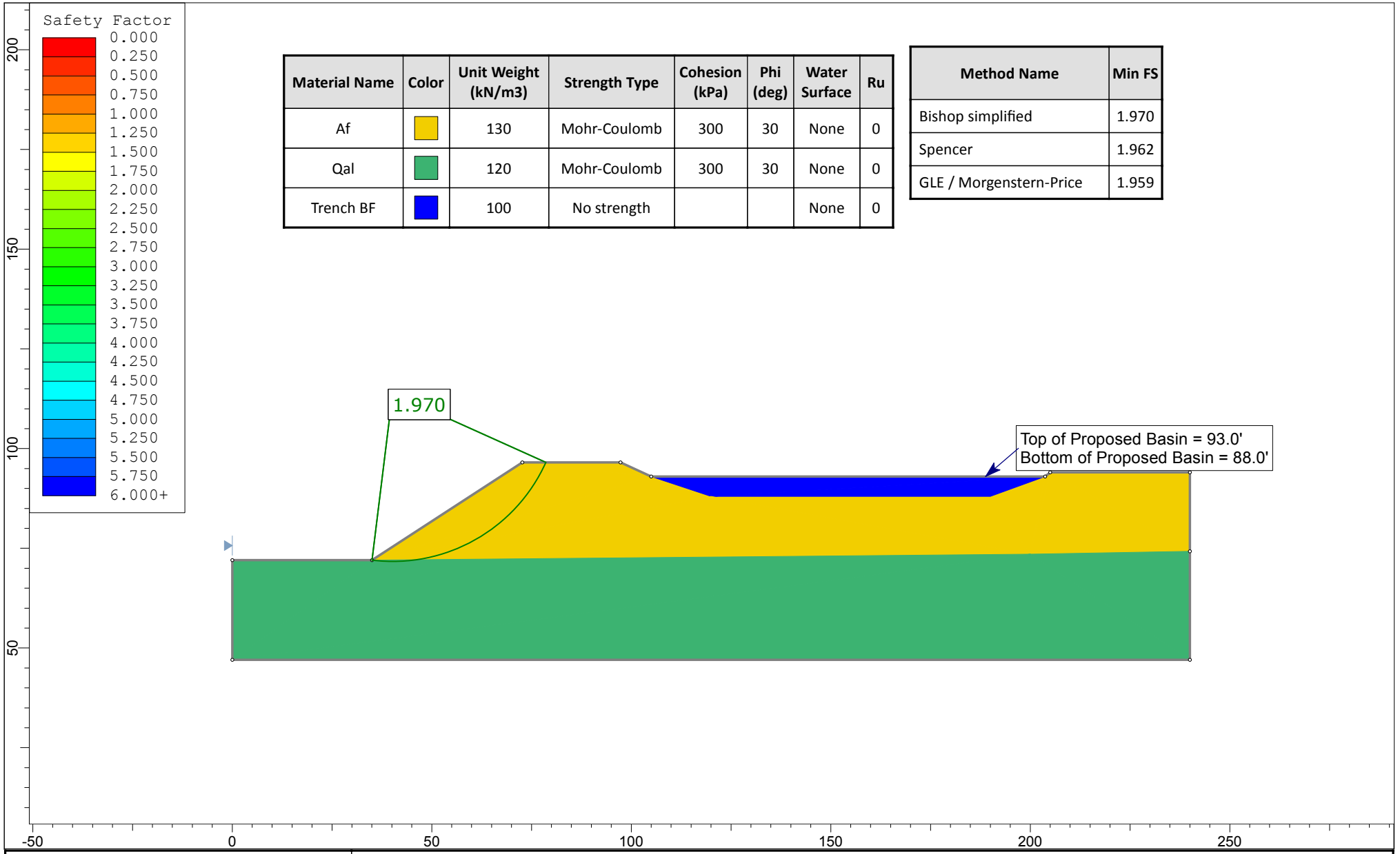
APPENDIX D

SLOPE STABILITY ANALYSES

GEOTEK

Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Qal		120	Mohr-Coulomb	300	30	None	0
Trench BF		100	No strength			None	0

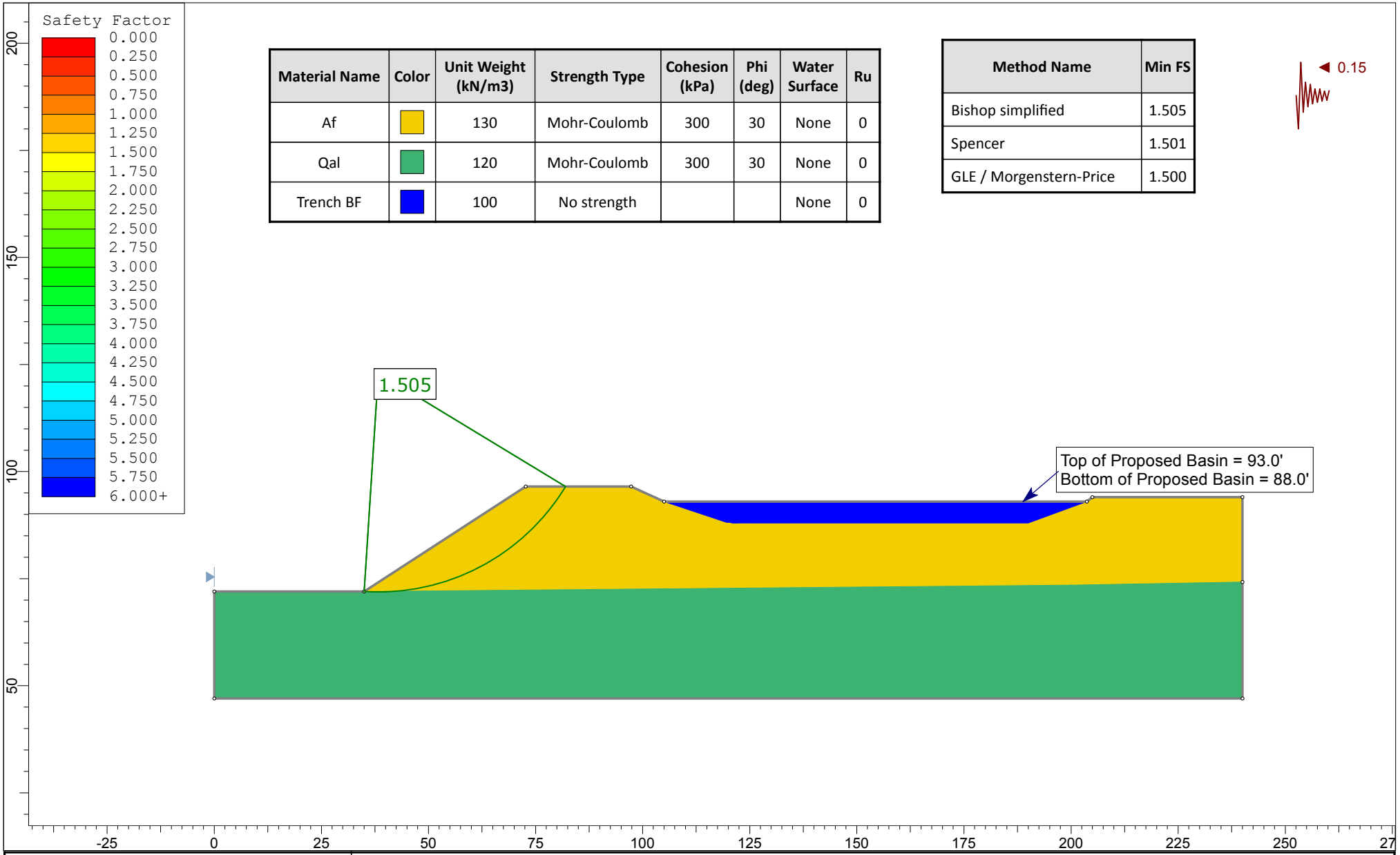
Method Name	Min FS
Bishop simplified	1.970
Spencer	1.962
GLE / Morgenstern-Price	1.959



rocscience

SLIDEINTERPRET 7.038

Project	4991 Macario Drive		
Analysis Description	Cross Section A-A' Circular Analysis - Static		
Drawn By	CH	Scale 1:1306	Company GeoTek
Date	1/13/2022, 4:43:40 PM		File Name Cross Section A-A' Static.slim



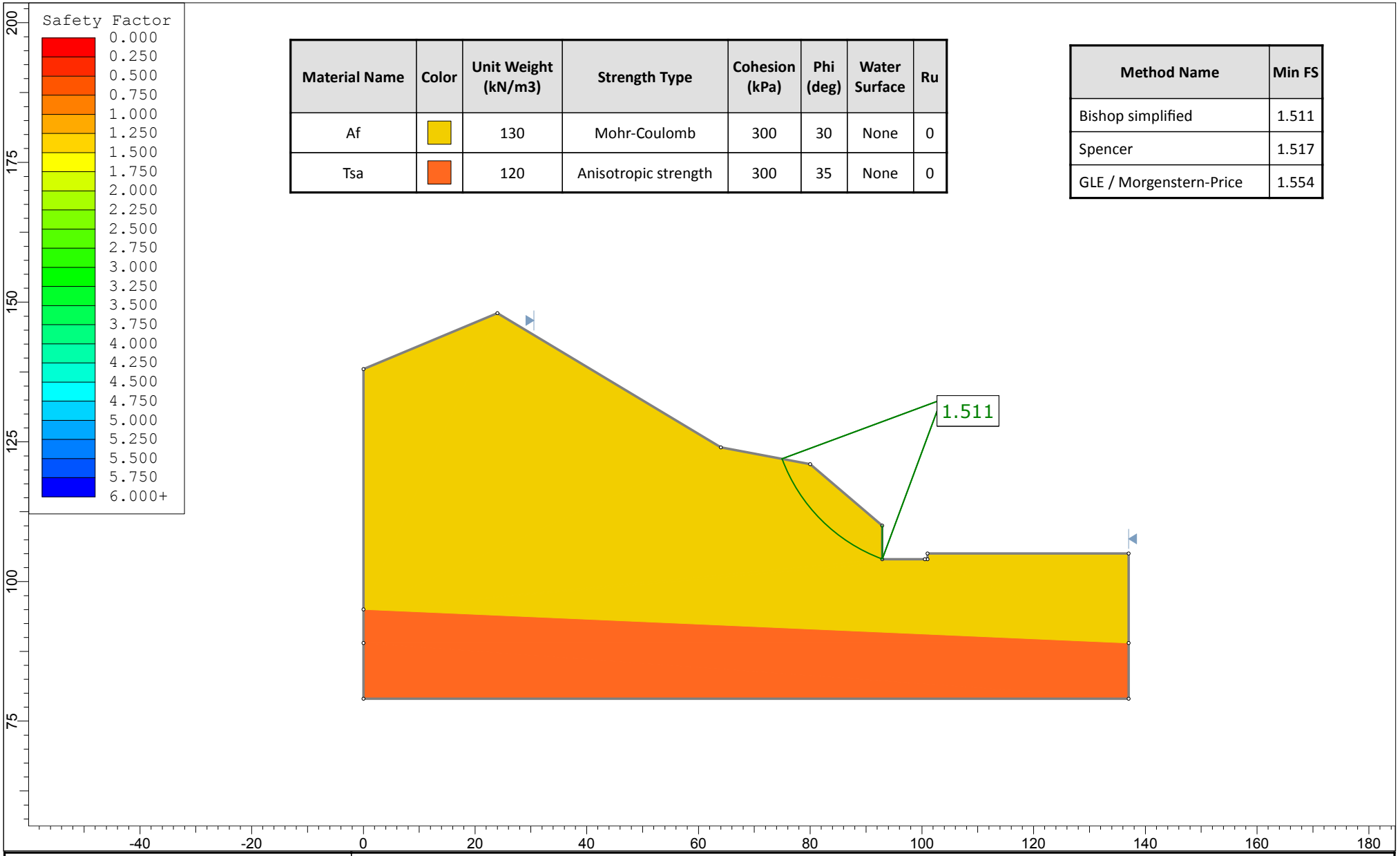
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Qal		120	Mohr-Coulomb	300	30	None	0
Trench BF		100	No strength			None	0

Method Name	Min FS
Bishop simplified	1.505
Spencer	1.501
GLE / Morgenstern-Price	1.500

rocscience

SLIDEINTERPRET 7.038

Project	4991 Macario Drive		
Analysis Description	Cross Section A-A' Circular Analysis - PseudoStatic		
Drawn By	CH	Scale 1:1219	Company GeoTek
Date	1/19/2022, 4:43:40 PM		File Name Cross Section A-A' Static.slim



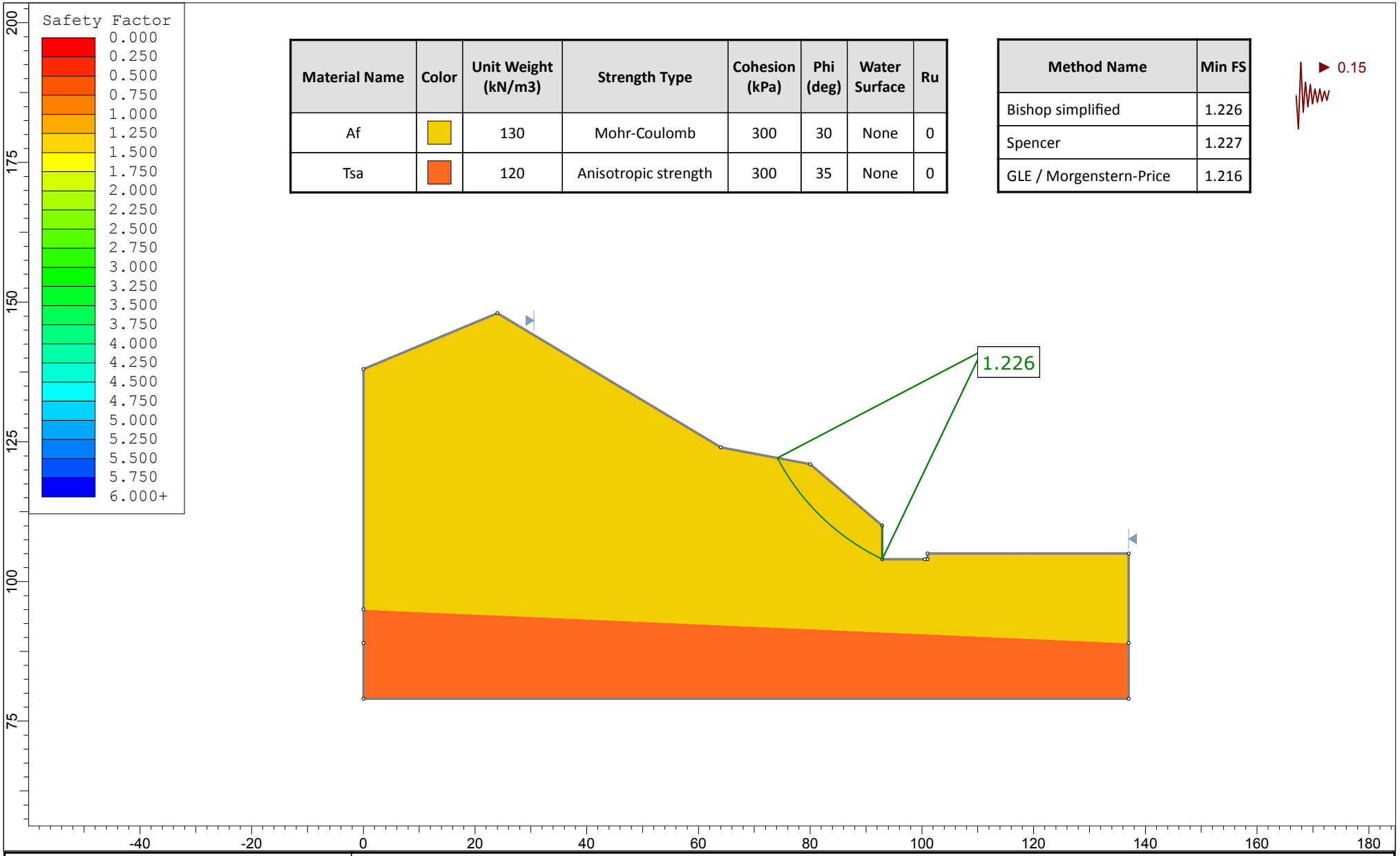
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Tsa		120	Anisotropic strength	300	35	None	0

Method Name	Min FS
Bishop simplified	1.511
Spencer	1.517
GLE / Morgenstern-Price	1.554

rocscience

SLIDEINTERPRET 7.038

Project	Cross Section B-B' - Circular Analysis - Static		
Analysis Description	4991 Macario Drive		
Drawn By	CH	Scale 1:935	Company GeoTek, Inc.
Date	1/19/2022, 4:38:27 PM		File Name Cross Section B-B' Static.slim



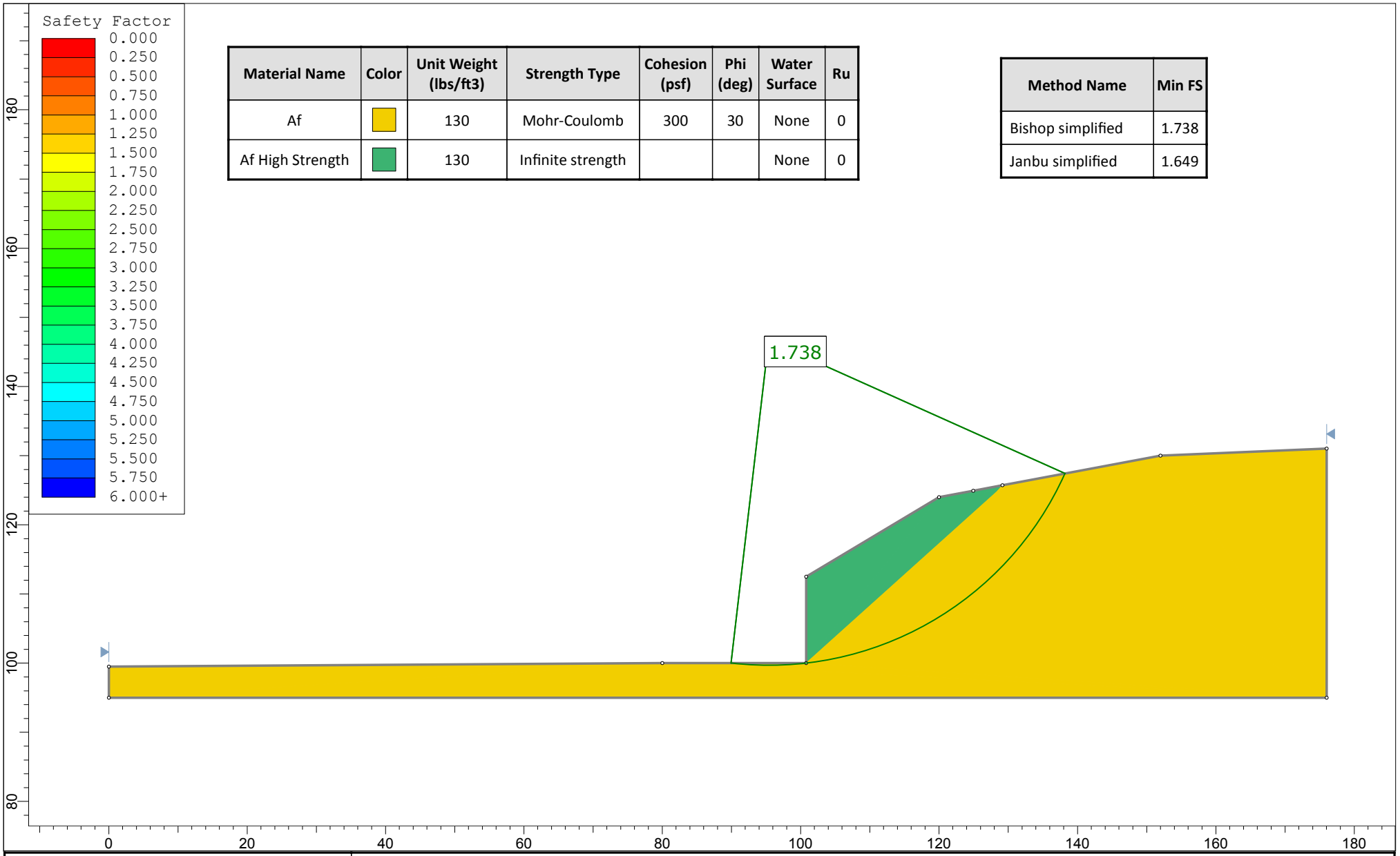
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Tsa		120	Anisotropic strength	300	35	None	0

Method Name	Min FS
Bishop simplified	1.226
Spencer	1.227
GLE / Morgenstern-Price	1.216

rocscience

SLIDEINTERPRET 7.038

Project	Cross Section B-B' - Circular Analysis - PseudoStatic		
Analysis Description	4991 Macario Drive		
Drawn By	CH	Scale 1:935	Company GeoTek, Inc.
Date	1/19/2022, 4:38:27 PM		File Name Cross Section B-B' Static.slim



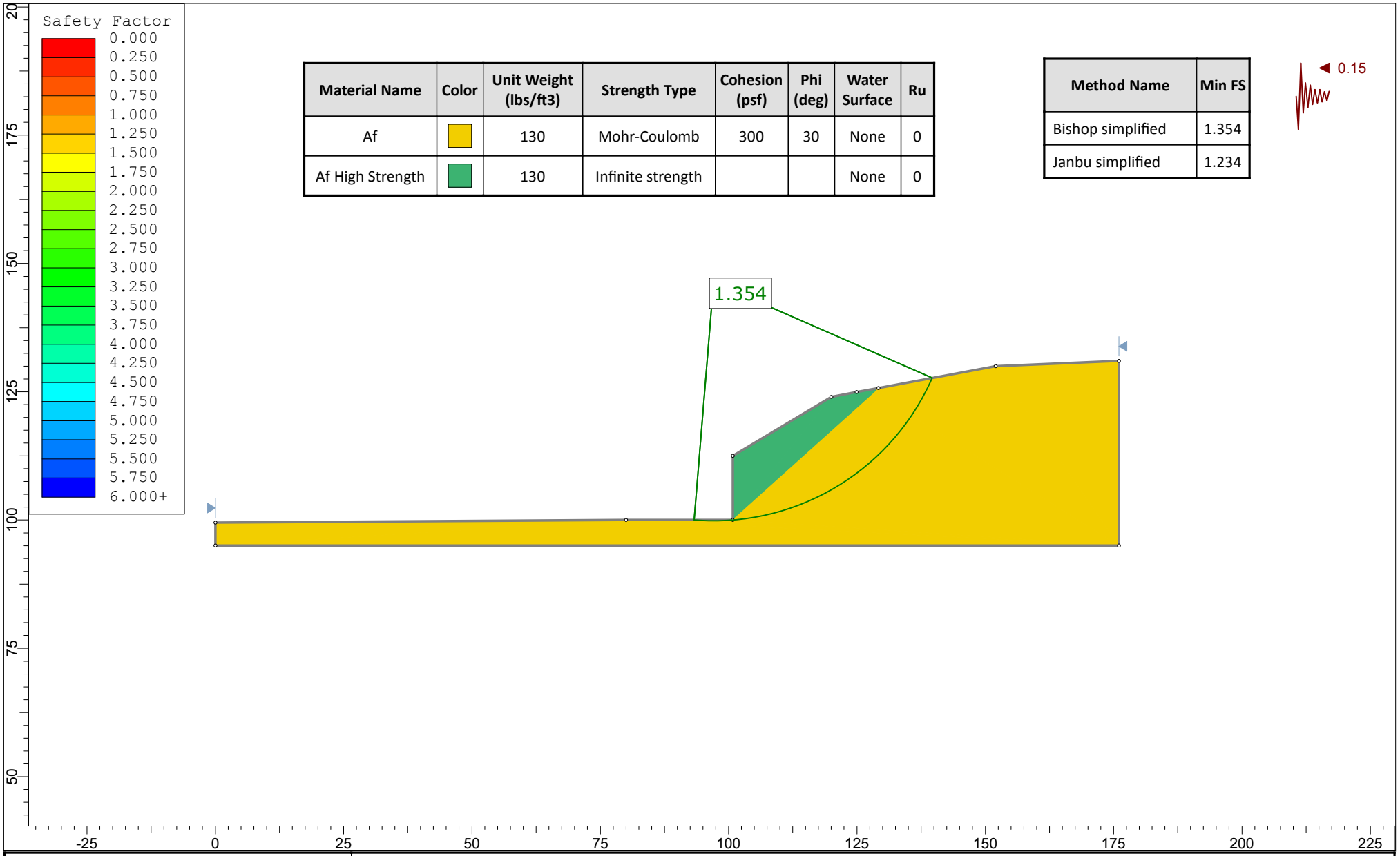
Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Af High Strength		130	Infinite strength			None	0

Method Name	Min FS
Bishop simplified	1.738
Janbu simplified	1.649

rocscience

SLIDEINTERPRET 7.038

Project	Cross Section C-C' Circular Analysis - Static		
Analysis Description	4991 Macario Drive- 3743-SD		
Drawn By	CH	Scale 1:230	Company GeoTek, Inc.
Date	1/19/2022, 6:19:54 PM		File Name Cross Section C-C' Static High Strength Active Zone.slim



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Water Surface	Ru
Af		130	Mohr-Coulomb	300	30	None	0
Af High Strength		130	Infinite strength			None	0

Method Name	Min FS
Bishop simplified	1.354
Janbu simplified	1.234

rocscience

SLIDEINTERPRET 7.038

Project	Cross Section C-C' Circular Analysis - PseudoStatic		
Analysis Description	4991 Macario Drive- 3743-SD		
Drawn By	CH	Scale 1:310	Company GeoTek, Inc.
Date	1/19/2022, 6:19:54 PM		File Name Cross Section C-C' Static High Strength Active Zone.slim

APPENDIX E

LIQUEFACTION SETTLEMENT ANALYSES

GEOTEK

GeoTek, Inc.
1548 N. Maple Street
Corona, CA 92878
951-710-1160, www.geotekusa.com

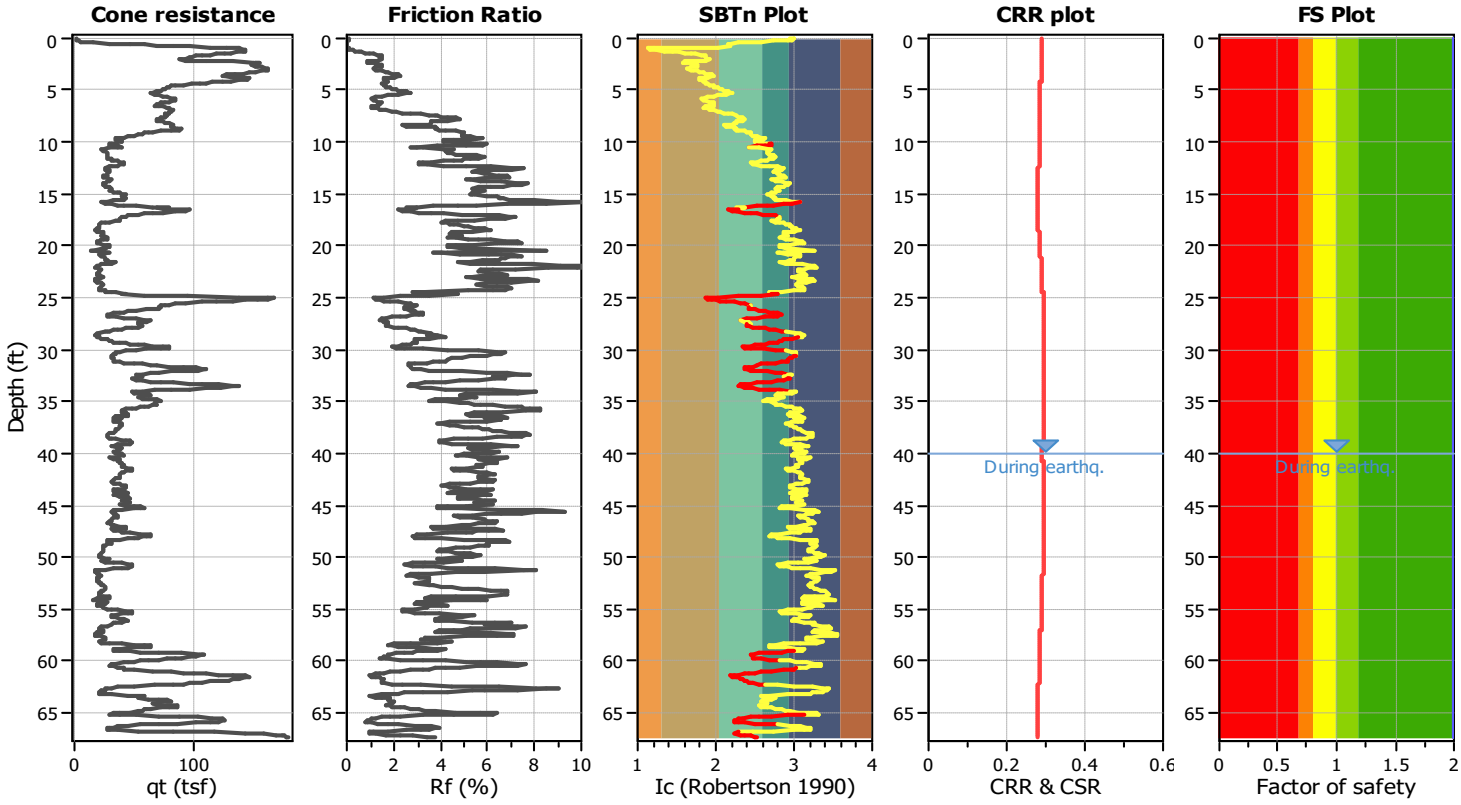
LIQUEFACTION ANALYSIS REPORT

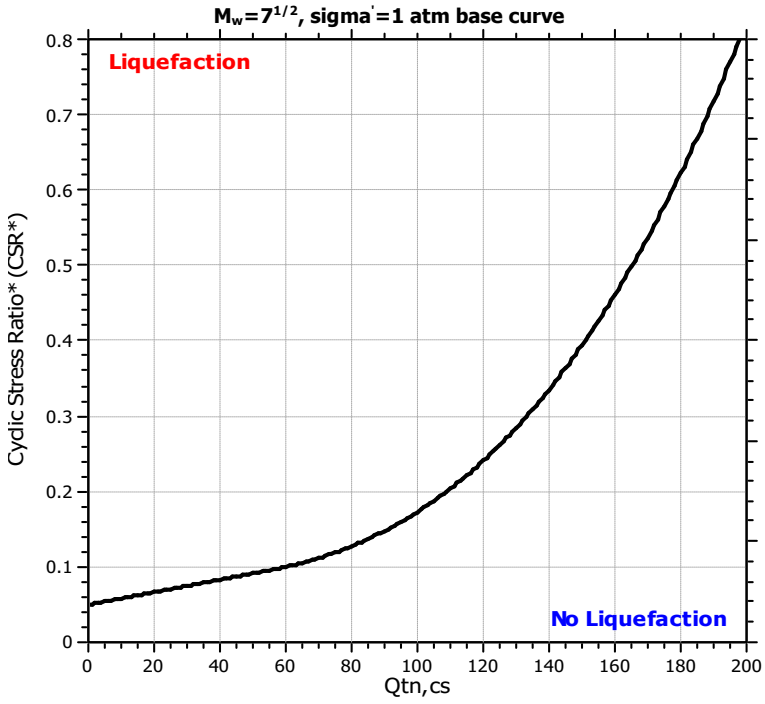
Project title : 4991 Macario Dr **Location : Oceanside, CA**

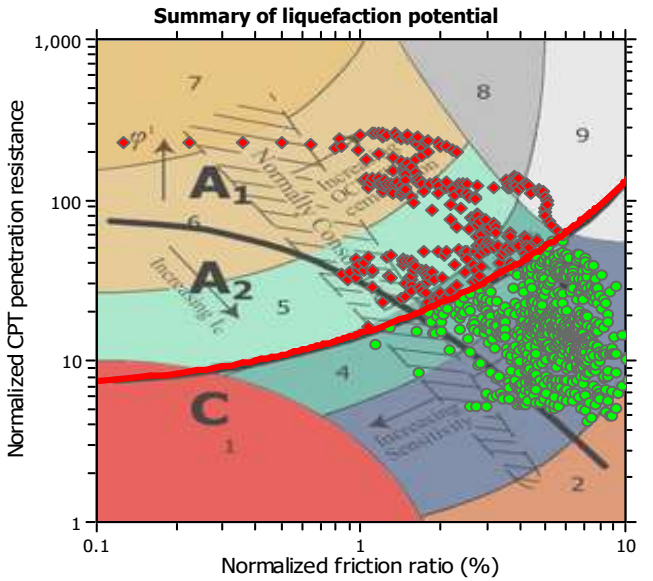
CPT file : Sheet 1 - Geotek 4991 Macario O

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	45.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	40.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	6.57	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.48	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

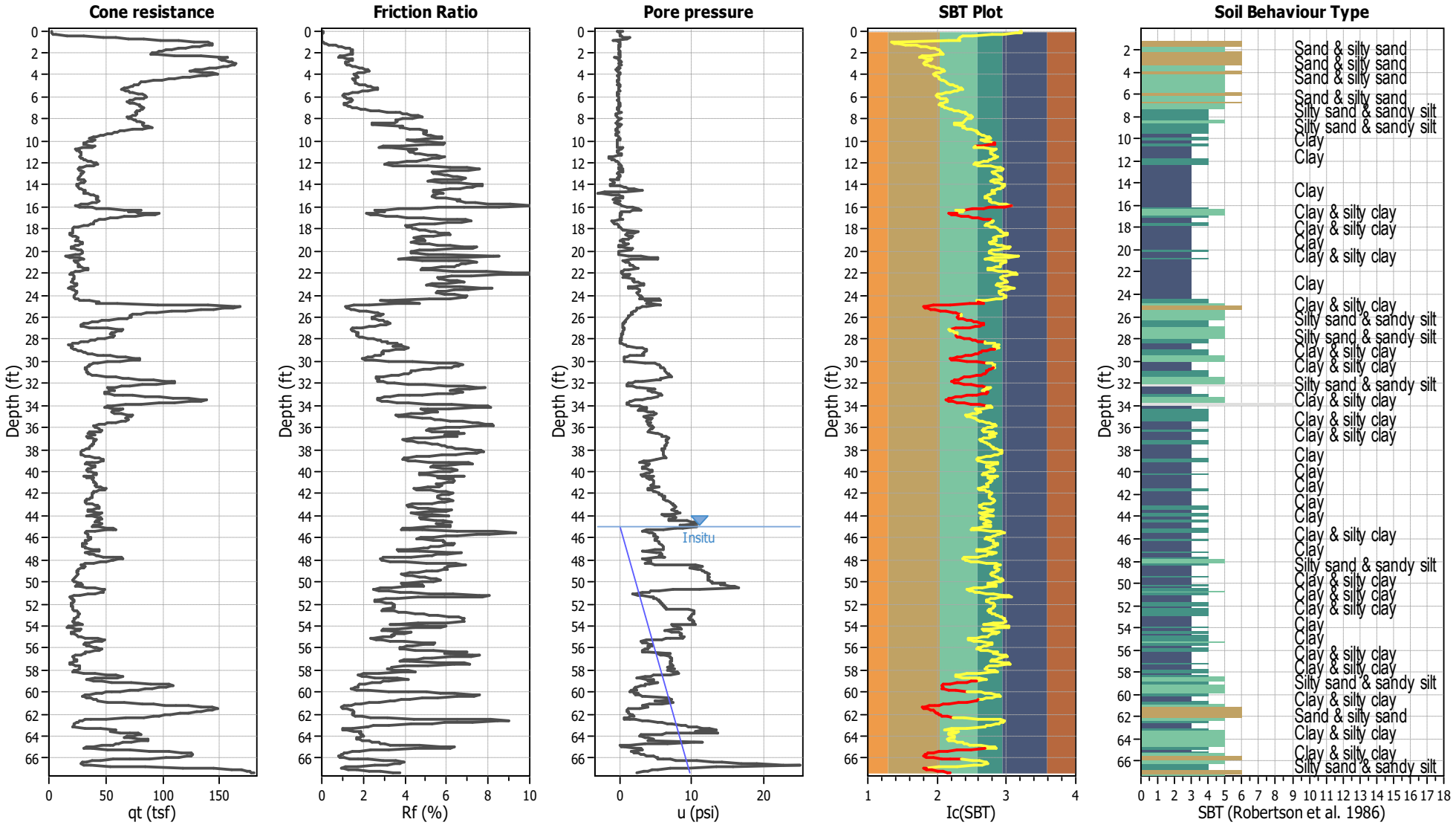






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



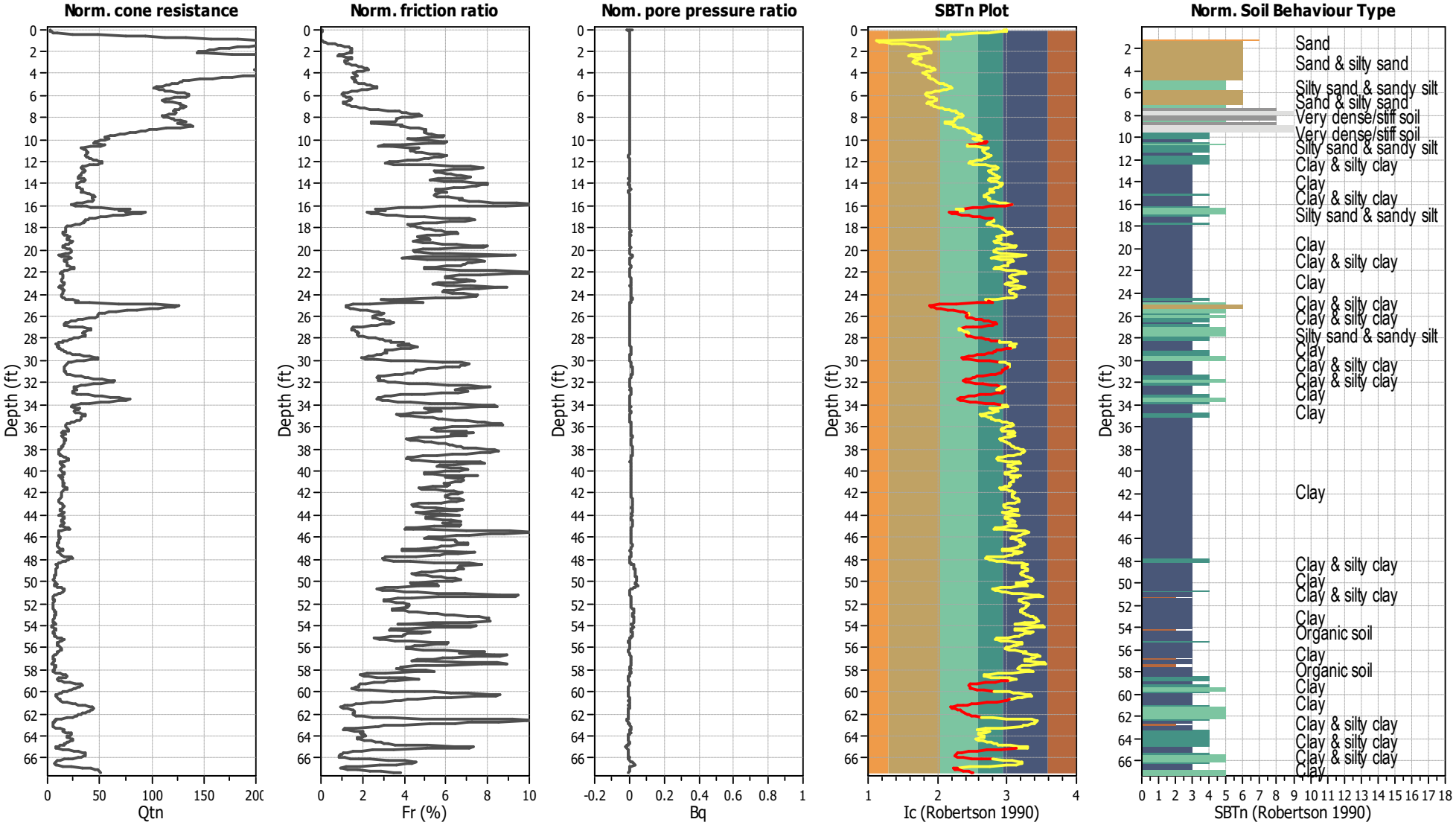
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	40.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.57	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.48	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	45.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



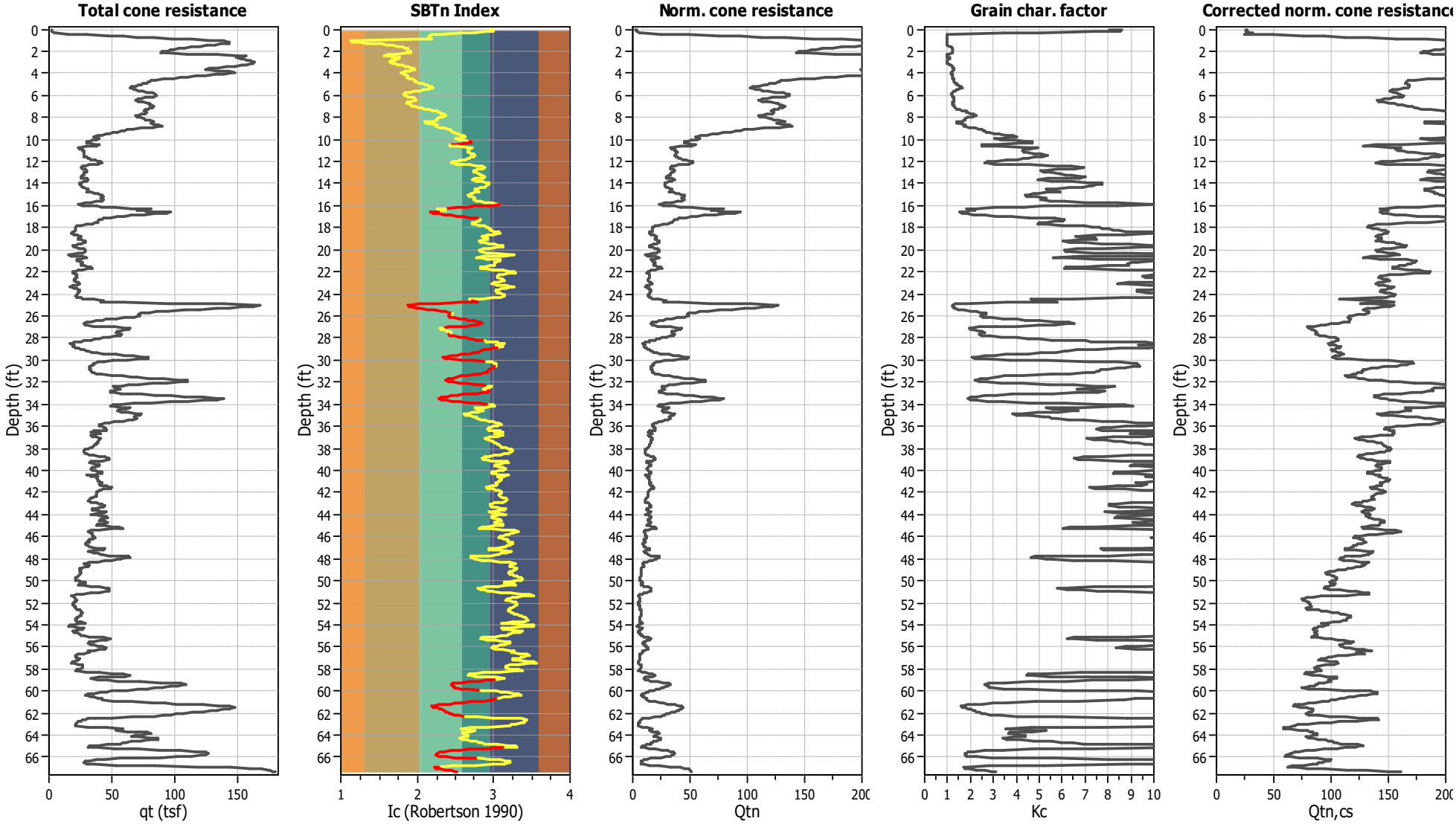
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	40.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.57	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.48	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	45.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

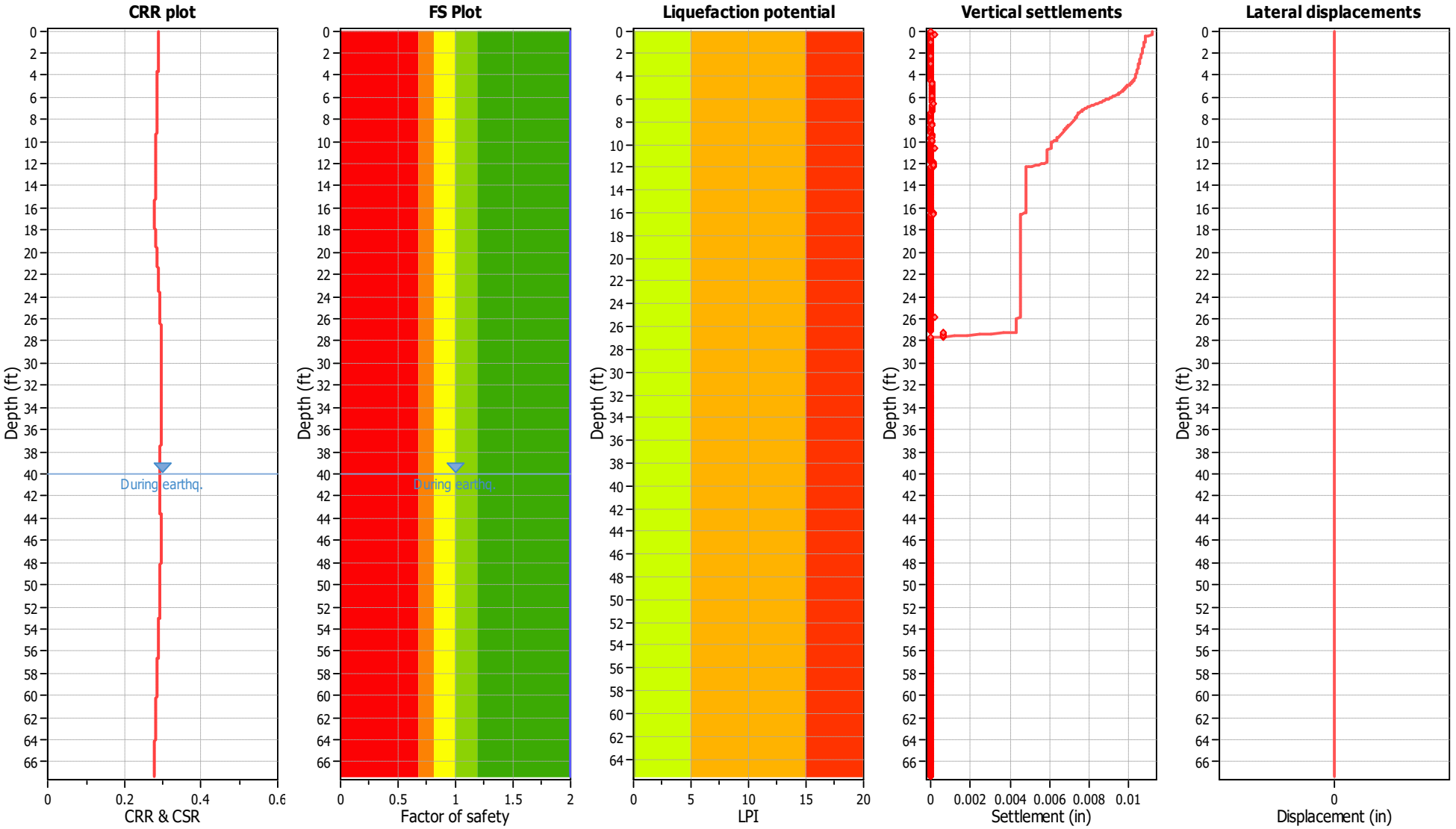
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	40.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.57	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.48	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	45.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	40.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.57	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.48	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	45.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

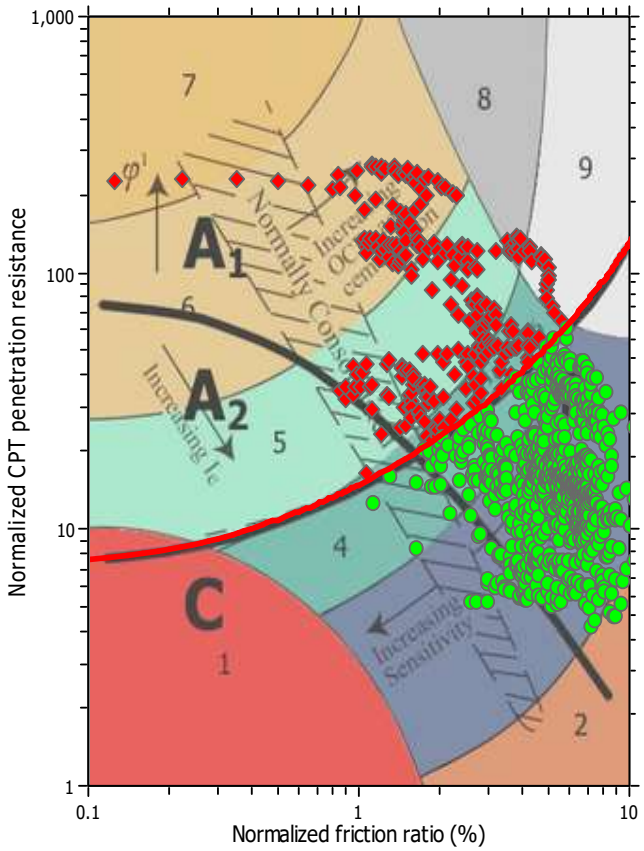
F.S. color scheme

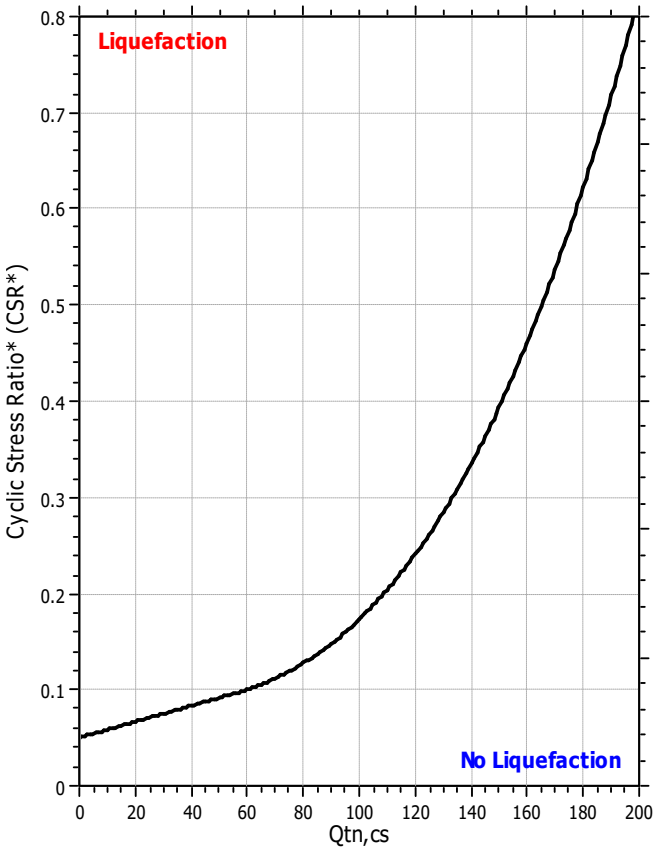
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

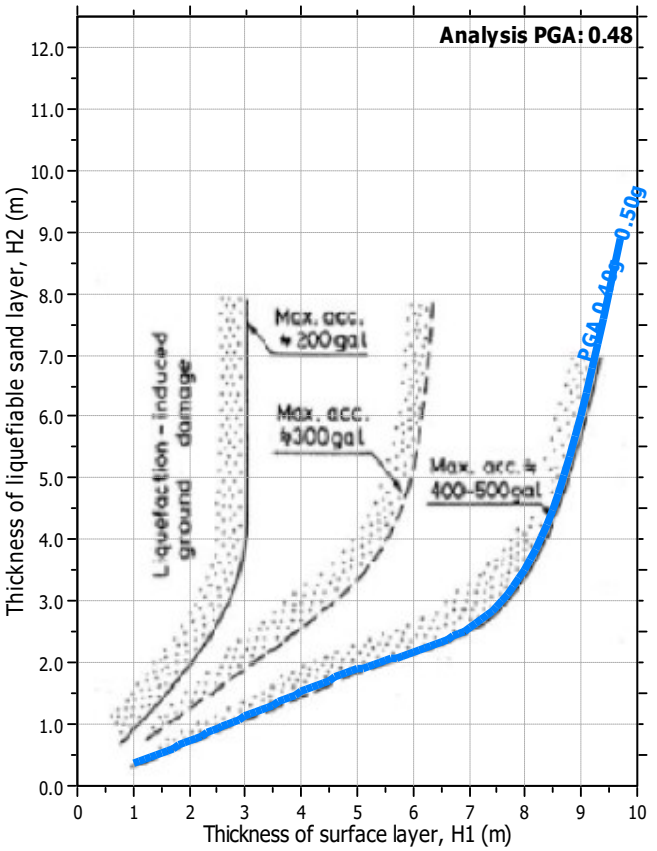
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



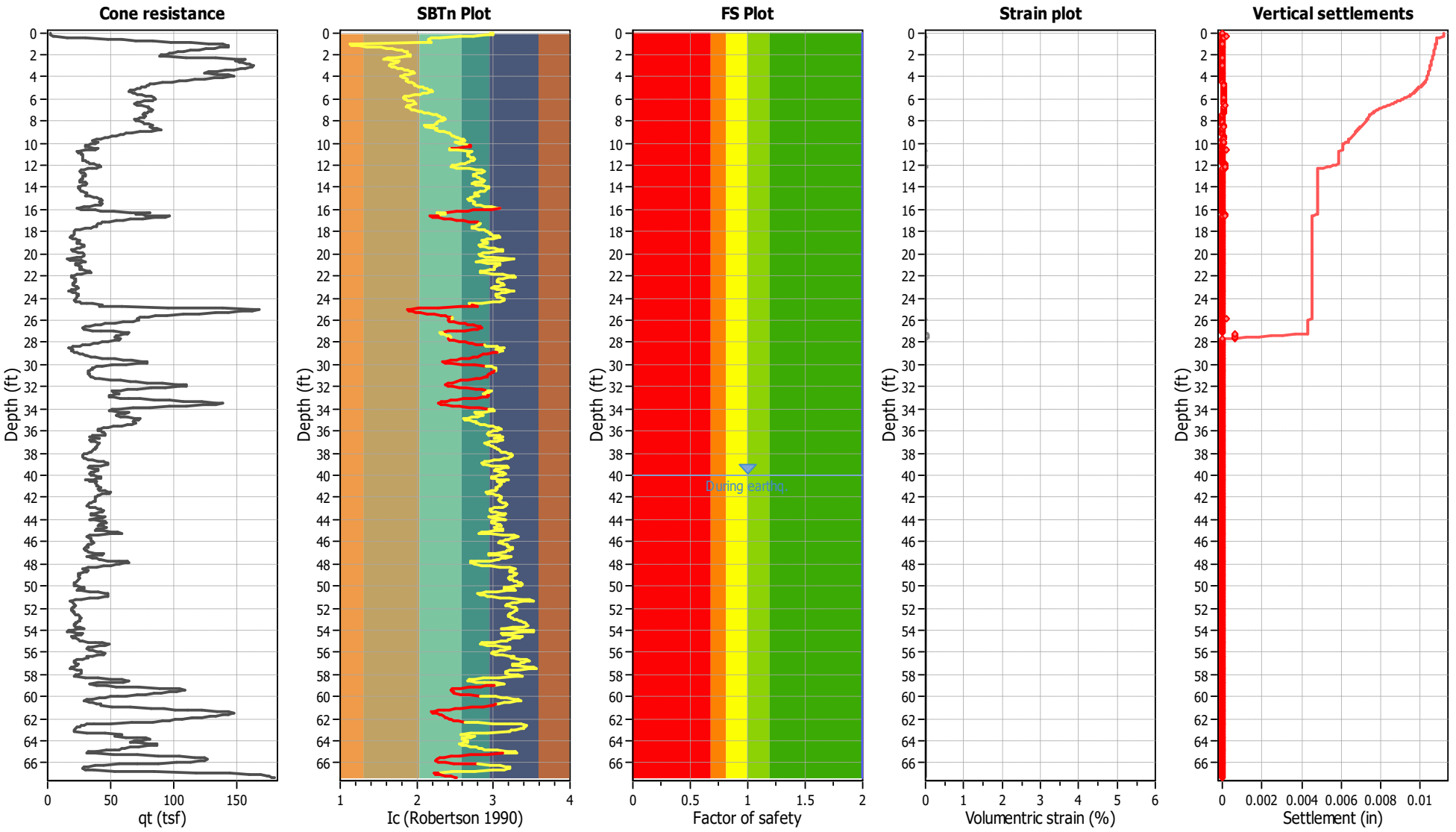




Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	40.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.57	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.48	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	45.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

APPENDIX E

STATIC SETTLEMENT ANALYSES

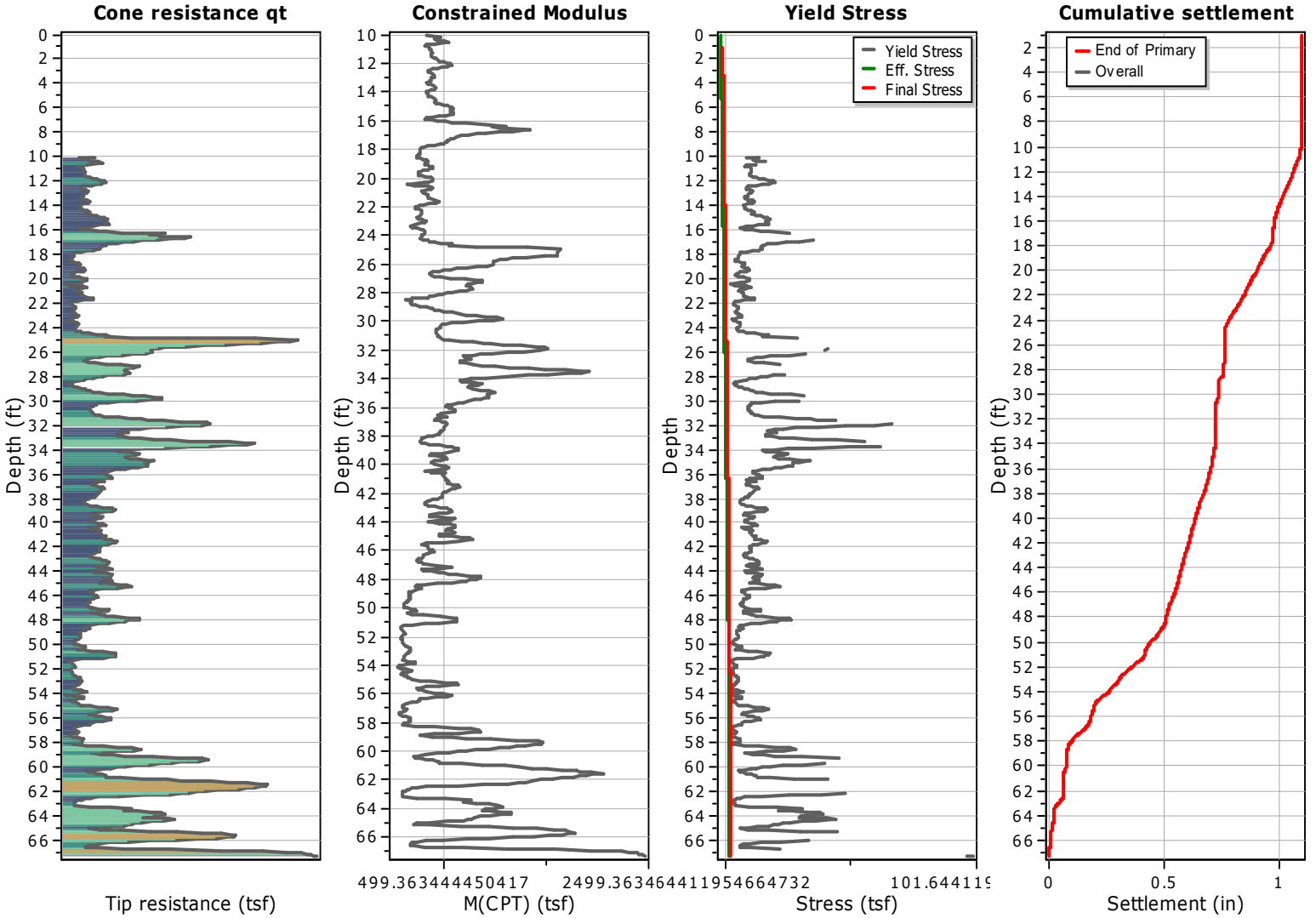
GEOTEK

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

CPT: CPT-1
Total depth: 67.32 ft, Date: 10/26/2021
Surface Elevation: 0.00 ft
Coords: X:0.00, Y:0.00
Cone Type:
Cone Operator:

Project: **4991 Macario Drive**
Location: **Oceanside, CA**

Settlements calculation according to theory of elasticity*



Calculation properties

Footing type: Rectangular
Footing width: 100.00 (ft)
L/B: 1.0
Footing pressure: 0.75 (tsf)
Embedment depth: 1.00 (ft)
Footing is rigid: No
Remove excavation load: No
Apply 20% rule: No
Calculate secondary settlements: No
Time period for primary consolidation: N/A
Time period for second. settlements: N/A

* Primary settlement calculation is performed according to the following formula:

$$S = \sum \frac{\Delta \sigma_v}{M_{CPT}} \Delta z$$

* Secondary (creep) settlement calculation is performed according to the following formula:

$$S = C_\alpha \cdot \Delta z \cdot \log(t/t_p)$$

where t_p is the duration of primary consolidation

APPENDIX F

GENERAL GRADING GUIDELINES

GEOTEK

GENERAL GRADING GUIDELINES

Guidelines presented herein are intended to address general construction procedures for earthwork construction. Specific situations and conditions often arise which cannot reasonably be discussed in general guidelines, when anticipated these are discussed in the text of the report. Often unanticipated conditions are encountered which may necessitate modification or changes to these guidelines. It is our hope that these will assist the contractor to more efficiently complete the project by providing a reasonable understanding of the procedures that would be expected during earthwork and the testing and observation used to evaluate those procedures.

General

Grading should be performed to at least the minimum requirements of governing agencies, the California Building Code, CBC (2019) and the guidelines presented below.

Preconstruction Meeting

A preconstruction meeting should be held prior to site earthwork. Any questions the contractor has regarding our recommendations, general site conditions, apparent discrepancies between reported and actual conditions and/or differences in procedures the contractor intends to use should be brought up at that meeting. The contractor (including the main onsite representative) should review our report and these guidelines in advance of the meeting. Any comments the contractor may have regarding these guidelines should be brought up at that meeting.

Grading Observation and Testing

1. Observation of the fill placement should be provided by our representative during grading. Verbal communication during the course of each day will be used to inform the contractor of test results. The contractor should receive a copy of the "Daily Field Report" indicating results of field density tests that day. If our representative does not provide the contractor with these reports, our office should be notified.
2. Testing and observation procedures are, by their nature, specific to the work or area observed and location of the tests taken, variability may occur in other locations. The contractor is responsible for the uniformity of the grading operations; our observations and test results are intended to evaluate the contractor's overall level of efforts during grading. The contractor's personnel are the only individuals participating in all aspect of site work. Compaction testing and observation should not be considered as relieving the contractor's responsibility to properly compact the fill.
3. Cleanouts, processed ground to receive fill, key excavations, and subdrains should be observed by our representative prior to placing any fill. It will be the contractor's responsibility to notify our representative or office when such areas are ready for observation.
4. Density tests may be made on the surface material to receive fill, as considered warranted by this firm.
5. In general, density tests would be made at maximum intervals of two feet of fill height or every 1,000 cubic yards of fill placed. Criteria will vary depending on soil conditions and size of the fill. More frequent testing may be performed. In any case, an adequate number of field density tests should be made to evaluate the required compaction and moisture content is generally being obtained.

6. Laboratory testing to support field test procedures will be performed, as considered warranted, based on conditions encountered (e.g. change of material sources, types, etc.) Every effort will be made to process samples in the laboratory as quickly as possible and in progress construction projects are our first priority. However, laboratory workloads may cause in delays and some soils may require a **minimum of 48 to 72 hours to complete test procedures**. Whenever possible, our representative(s) should be informed in advance of operational changes that might result in different source areas for materials.
7. Procedures for testing of fill slopes are as follows:
   a) Density tests should be taken periodically during grading on the flat surface of the fill, three to five feet horizontally from the face of the slope.
   b) If a method other than over building and cutting back to the compacted core is to be employed, slope compaction testing during construction should include testing the outer six inches to three feet in the slope face to determine if the required compaction is being achieved.
8. Finish grade testing of slopes and pad surfaces should be performed after construction is complete.

Site Clearing

1. All vegetation, and other deleterious materials, should be removed from the site. If material is not immediately removed from the site it should be stockpiled in a designated area(s) well outside of all current work areas and delineated with flagging or other means. Site clearing should be performed in advance of any grading in a specific area.
2. Efforts should be made by the contractor to remove all organic or other deleterious material from the fill, as even the most diligent efforts may result in the incorporation of some materials. This is especially important when grading is occurring near the natural grade. All equipment operators should be aware of these efforts. Laborers may be required as root pickers.
3. Nonorganic debris or concrete may be placed in deeper fill areas provided the procedures used are observed and found acceptable by our representative. Typical procedures are similar to those indicated on Plate G-4.

Treatment of Existing Ground

1. Following site clearing, all surficial deposits of alluvium and colluvium as well as weathered or creep effected bedrock, should be removed (see Plates G-1, G-2 and G-3) unless otherwise specifically indicated in the text of this report.
2. In some cases, removal may be recommended to a specified depth (e.g. flat sites where partial alluvial removals may be sufficient). The contractor should not exceed these depths unless directed otherwise by our representative.
3. Groundwater existing in alluvial areas may make excavation difficult. Deeper removals than indicated in the text of the report may be necessary due to saturation during winter months.
4. Subsequent to removals, the natural ground should be processed to a depth of six inches, moistened to near optimum moisture conditions and compacted to fill standards.
5. Exploratory back hoe or dozer trenches still remaining after site removal should be excavated and filled with compacted fill if they can be located.

Subdrainage

1. Subdrainage systems should be provided in canyon bottoms prior to placing fill, and behind buttress and stabilization fills and in other areas indicated in the report. Subdrains should conform to schematic diagrams G-1 and G-5, and be acceptable to our representative.
2. For canyon subdrains, runs less than 500 feet may use six-inch pipe. Typically, runs in excess of 500 feet should have the lower end as eight-inch minimum.
3. Filter material should be clean, 1/2 to 1-inch gravel wrapped in a suitable filter fabric. Class 2 permeable filter material per California Department of Transportation Standards tested by this office to verify its suitability, may be used without filter fabric. A sample of the material should be provided to the Soils Engineer by the contractor at least two working days before it is delivered to the site. The filter should be clean with a wide range of sizes.
4. Approximate delineation of anticipated subdrain locations may be offered at 40-scale plan review stage. During grading, this office would evaluate the necessity of placing additional drains.
5. All subdrainage systems should be observed by our representative during construction and prior to covering with compacted fill.
6. Subdrains should outlet into storm drains where possible. Outlets should be located and protected. The need for backflow preventers should be assessed during construction.
7. Consideration should be given to having subdrains located by the project surveyors.

Fill Placement

1. Unless otherwise indicated, all site soil and bedrock may be reused for compacted fill; however, some special processing or handling may be required (see text of report).
2. Material used in the compacting process should be evenly spread, moisture conditioned, processed, and compacted in thin lifts six (6) to eight (8) inches in compacted thickness to obtain a uniformly dense layer. The fill should be placed and compacted on a nearly horizontal plane, unless otherwise found acceptable by our representative.
3. If the moisture content or relative density varies from that recommended by this firm, the contractor should rework the fill until it is in accordance with the following:
   a) Moisture content of the fill should be at or above optimum moisture. Moisture should be evenly distributed without wet and dry pockets. Pre-watering of cut or removal areas should be considered in addition to watering during fill placement, particularly in clay or dry surficial soils. The ability of the contractor to obtain the proper moisture content will control production rates.
   b) Each six-inch layer should be compacted to at least 90 percent of the maximum dry density in compliance with the testing method specified by the controlling governmental agency. In most cases, the testing method is ASTM Test Designation D 1557.
4. Rock fragments less than eight inches in diameter may be utilized in the fill, provided:
   a) They are not placed in concentrated pockets;
   b) There is a sufficient percentage of fine-grained material to surround the rocks;
   c) The distribution of the rocks is observed by, and acceptable to, our representative.
5. Rocks exceeding eight (8) inches in diameter should be taken off site, broken into smaller fragments, or placed in accordance with recommendations of this firm in areas designated suitable for rock disposal (see Plate G-4). On projects where significant large quantities of oversized materials are anticipated, alternate guidelines for placement may be included. If

significant oversize materials are encountered during construction, these guidelines should be requested.

6. In clay soil, dry or large chunks or blocks are common. If in excess of eight (8) inches minimum dimension, then they are considered as oversized. Sheepsfoot compactors or other suitable methods should be used to break up blocks. When dry, they should be moisture conditioned to provide a uniform condition with the surrounding fill.

Slope Construction

1. The contractor should obtain a minimum relative compaction of 90 percent out to the finished slope face of fill slopes. This may be achieved by either overbuilding the slope and cutting back to the compacted core, or by direct compaction of the slope face with suitable equipment.
2. Slopes trimmed to the compacted core should be overbuilt by at least three (3) feet with compaction efforts out to the edge of the false slope. Failure to properly compact the outer edge results in trimming not exposing the compacted core and additional compaction after trimming may be necessary.
3. If fill slopes are built "at grade" using direct compaction methods, then the slope construction should be performed so that a constant gradient is maintained throughout construction. Soil should not be "spilled" over the slope face nor should slopes be "pushed out" to obtain grades. Compaction equipment should compact each lift along the immediate top of slope. Slopes should be back rolled or otherwise compacted at approximately every 4 feet vertically as the slope is built.
4. Corners and bends in slopes should have special attention during construction as these are the most difficult areas to obtain proper compaction.
5. Cut slopes should be cut to the finished surface. Excessive undercutting and smoothing of the face with fill may necessitate stabilization.

Keyways, Buttress and Stabilization Fills

Keyways are needed to provide support for fill slope and various corrective procedures.

1. Side-hill fills should have an equipment-width key at their toe excavated through all surficial soil and into competent material and tilted back into the hill (Plates G-2, G-3). As the fill is elevated, it should be benched through surficial soil and slopewash, and into competent bedrock or other material deemed suitable by our representatives (See Plates G-1, G-2, and G-3).
2. Fill over cut slopes should be constructed in the following manner:
   a) All surficial soils and weathered rock materials should be removed at the cut-fill interface.
   b) A key at least one and one-half (1.5) equipment width wide (or as needed for compaction), and tipped at least one (1) foot into slope, should be excavated into competent materials and observed by our representative.
   c) The cut portion of the slope should be excavated prior to fill placement to evaluate if stabilization is necessary. The contractor should be responsible for any additional earthwork created by placing fill prior to cut excavation. (see Plate G-3 for schematic details.)
3. Daylight cut lots above descending natural slopes may require removal and replacement of the outer portion of the lot. A schematic diagram for this condition is presented on Plate G-2.

4. A basal key is needed for fill slopes extending over natural slopes. A schematic diagram for this condition is presented on Plate G-2.
5. All fill slopes should be provided with a key unless within the body of a larger overall fill mass. Please refer to Plate G-3 for specific guidelines.

Anticipated buttress and stabilization fills are discussed in the text of the report. The need to stabilize other proposed cut slopes will be evaluated during construction. Plate G-5 shows a schematic of buttress construction.

1. All backcuts should be excavated at gradients of 1:1 or flatter. The backcut configuration should be determined based on the design, exposed conditions, and need to maintain a minimum fill width and provide working room for the equipment.
2. On longer slopes, backcuts and keyways should be excavated in maximum 250 feet long segments. The specific configurations will be determined during construction.
3. All keys should be a minimum of two (2) feet deep at the toe and slope toward the heel at least one foot or two (2%) percent, whichever is greater.
4. Subdrains are to be placed for all stabilization slopes exceeding 10 feet in height. Lower slopes are subject to review. Drains may be required. Guidelines for subdrains are presented on Plate G-5.
5. Benching of backcuts during fill placement is required.

Lot Capping

1. When practical, the upper three (3) feet of material placed below finish grade should be comprised of the least expansive material available. Preferably, highly and very highly expansive materials should not be used. We will attempt to offer advice based on visual evaluations of the materials during grading, but it must be realized that laboratory testing is needed to evaluate the expansive potential of soil. Minimally, this testing takes two (2) to four (4) days to complete.
2. Transition lots (cut and fill) both per plan and those created by remedial grading (e.g. lots above stabilization fills, along daylight lines, above natural slopes, etc.) should be capped with a minimum three foot thick compacted fill blanket.
3. Cut pads should be observed by our representative(s) to evaluate the need for overexcavation and replacement with fill. This may be necessary to reduce water infiltration into highly fractured bedrock or other permeable zones, and/or due to differing expansive potential of materials beneath a structure. The overexcavation should be at least three feet. Deeper overexcavation may be recommended in some cases.

ROCK PLACEMENT AND ROCK FILL GUIDELINES

If large quantities of oversize material would be generated during grading, it's likely that such materials may require special handling for burial. Although alternatives may be developed in the field, the following methods of rock disposal are recommended on a preliminary basis.

Limited Larger Rock

When materials encountered are principally soil with limited quantities of larger rock fragments or boulders, placement in windrows is recommended. The following procedures should be applied:

1. Oversize rock (greater than 8 inches) should be placed in windrows.
    a) Windrows are rows of single file rocks placed to avoid nesting or clusters of rock.

b) Each adjacent rock should be approximately the same size (within ~one foot in diameter).

c) The maximum rock size allowed in windrows is four feet

2. A minimum vertical distance of three feet between lifts should be maintained. Also, the windrows should be offset from lift to lift. Rock windrows should not be closer than 15 feet to the face of fill slopes and sufficient space must be maintained for proper slope construction (see Plate G-4).

3. Rocks greater than eight inches in diameter should not be placed within seven feet of the finished subgrade for a roadway or pads and should be held below the depth of the lowest utility. This will allow easier trenching for utility lines.

4. Rocks greater than four feet in diameter should be broken down, if possible, or they may be placed in a dozer trench. Each trench should be excavated into the compacted fill a minimum of one foot deeper than the largest diameter of rock.

a) The rock should be placed in the trench and granular fill materials (SE>30) should be flooded into the trench to fill voids around the rock.

b) The over size rock trenches should be no closer together than 15 feet from any slope face.

c) Trenches at higher elevation should be staggered and there should be a minimum of four feet of compacted fill between the top of the one trench and the bottom of the next higher trench.

d) It would be necessary to verify 90 percent relative compaction in these pits. A 24 to 72 hour delay to allow for water dissipation should be anticipated prior to additional fill placement.

Structural Rock Fills

If the materials generated for placement in structural fills contains a significant percentage of material more than six (6) inches in one dimension, then placement using conventional soil fill methods with isolated windrows would not be feasible. In such cases the following could be considered:

1. Mixes of large rock or boulders may be placed as rock fill. They should be below the depth of all utilities both on pads and in roadways and below any proposed swimming pools or other excavations. If these fills are placed within seven (7) feet of finished grade, they may affect foundation design.

2. Rock fills are required to be placed in horizontal layers that should **not exceed two feet in thickness, or the maximum rock size present, which ever is less**. All rocks exceeding two feet should be broken down to a smaller size, windrowed (see above), or disposed of in non-structural fill areas. Localized larger rock up to 3 feet in largest dimension may be placed in rock fill as follows:

a) individual rocks are placed in a given lift so as to be roughly 50% exposed above the typical surface of the fill ,

b) loaded rock trucks or alternate compactors are worked around the rock on all sides to the satisfaction of the soil engineer,

c) the portion of the rock above grade is covered with a second lift.

3. Material placed in each lift should be well graded. No unfilled spaces (voids) should be permitted in the rock fill.

Compaction Procedures

Compaction of rock fills is largely procedural. The following procedures have been found to generally produce satisfactory compaction.

1. Provisions for routing of construction traffic over the fill should be implemented.
   a) Placement should be by rock trucks crossing the lift being placed and dumping at its edge.
   b) The trucks should be routed so that each pass across the fill is via a different path and that all areas are uniformly traversed.
   c) The dumped piles should be knocked down and spread by a large dozer (D-8 or larger suggested). (Water should be applied before and during spreading.)

2. Rock fill should be generously watered (sluiced)
   a) Water should be applied by water trucks to the:
      i) dump piles,
      ii) front face of the lift being placed and,
      iii) surface of the fill prior to compaction.
   b) No material should be placed without adequate water.
   c) The number of water trucks and water supply should be sufficient to provide constant water.
   d) Rock fill placement should be suspended when water trucks are unavailable:
      i) for more than 5 minutes straight, or,
      ii) for more than 10 minutes/hour.

3. In addition to the truck pattern and at the discretion of the soil engineer, large, rubber tired compactors may be required.
   a) The need for this equipment will depend largely on the ability of the operators to provide complete and uniform coverage by wheel rolling with the trucks.
   b) Other large compactors will also be considered by the soil engineer provided that required compaction is achieved.

4. Placement and compaction of the rock fill is largely procedural. Observation by trenching should be made to check:
   a) the general segregation of rock size,
   b) for any unfilled spaces between the large blocks, and
   c) the matrix compaction and moisture content.

5. Test fills may be required to evaluate relative compaction of finer grained zones or as deemed appropriate by the soil engineer.
   a) A lift should be constructed by the methods proposed, as proposed

6. Frequency of the test trenching is to be at the discretion of the soil engineer. Control areas may be used to evaluate the contractor's procedures.

7. A minimum horizontal distance of 15 feet should be maintained from the face of the rock fill and any finish slope face. At least the outer 15 feet should be built of conventional fill materials.

Piping Potential and Filter Blankets

Where conventional fill is placed over rock fill, the potential for piping (migration) of the fine grained material from the conventional fill into rock fills will need to be addressed.

The potential for particle migration is related to the grain size comparisons of the materials present and in contact with each other. Provided that 15 percent of the finer soil is larger than the effective

pore size of the coarse soil, then particle migration is substantially mitigated. This can be accomplished with a well-graded matrix material for the rock fill and a zone of fill similar to the matrix above it. The specific gradation of the fill materials placed during grading must be known to evaluate the need for any type of filter that may be necessary to cap the rock fills. This, unfortunately, can only be accurately determined during construction.

In the event that poorly graded matrix is used in the rock fills, properly graded filter blankets 2 to 3 feet thick separating rock fills and conventional fill may be needed. As an alternative, use of two layers of filter fabric (Mirafi 700 x or equivalent) could be employed on top of the rock fill. In order to mitigate excess puncturing, the surface of the rock fill should be well broken down and smoothed prior to placing the filter fabric. The first layer of the fabric may then be placed and covered with relatively permeable fill material (with respect to overlying material) 1 to 2 feet thick. The relative permeable material should be compacted to fill standards. The second layer of fabric should be placed and conventional fill placement continued.

Subdrainage

Rock fill areas should be tied to a subdrainage system. If conventional fill is placed that separates the rock from the main canyon subdrain, then a secondary system should be installed. A system consisting of an adequately graded base (3 to 4 percent to the lower side) with a collector system and outlets may suffice.

Additionally, at approximately every 25 foot vertical interval, a collector system with outlets should be placed at the interface of the rock fill and the conventional fill blanketing a fill slope.

Monitoring

Depending upon the depth of the rock fill and other factors, monitoring for settlement of the fill areas may be needed following completion of grading. Typically, if rock fill depths exceed 40 feet, monitoring would be recommend prior to construction of any settlement sensitive improvements. Delays of 3 to 6 months or longer can be expected prior to the start of construction.

UTILITY TRENCH CONSTRUCTION AND BACKFILL

Utility trench excavation and backfill is the contractor's responsibility. The geotechnical consultant typically provides periodic observation and testing of these operations. While efforts are made to make sufficient observations and tests to verify that the contractors' methods and procedures are adequate to achieve proper compaction, it is typically impractical to observe all backfill procedures. As such, it is critical that the contractor use consistent backfill procedures.

Compaction methods vary for trench compaction and experience indicates many methods can be successful. However, procedures that "worked" on previous projects may or may not prove effective on a given site. The contractor(s) should outline the procedures proposed, so that we may discuss them **prior** to construction. We will offer comments based on our knowledge of site conditions and experience.

1. Utility trench backfill in slopes, structural areas, in streets and beneath flat work or hardscape should be brought to at least optimum moisture and compacted to at least 90 percent of the laboratory standard. Soil should be moisture conditioned prior to placing in the trench.

2. Flooding and jetting are not typically recommended or acceptable for native soils. Flooding or jetting may be used with select sand having a Sand Equivalent (SE) of 30 or higher. This is typically limited to the following uses:
   a) shallow (12 + inches) under slab interior trenches and,
   b) as bedding in pipe zone.

   The water should be allowed to dissipate prior to pouring slabs or completing trench compaction.
3. Care should be taken not to place soils at high moisture content within the upper three feet of the trench backfill in street areas, as overly wet soils may impact subgrade preparation. Moisture may be reduced to 2% below optimum moisture in areas to be paved within the upper three feet below sub grade.
4. Sand backfill should not be allowed in exterior trenches adjacent to and within an area extending below a 1:1 projection from the outside bottom edge of a footing, unless it is similar to the surrounding soil.
5. Trench compaction testing is generally at the discretion of the geotechnical consultant. Testing frequency will be based on trench depth and the contractor's procedures. A probing rod would be used to assess the consistency of compaction between tested areas and untested areas. If zones are found that are considered less compact than other areas, this would be brought to the contractor's attention.

JOB SAFETY

General

Personnel safety is a primary concern on all job sites. The following summaries are safety considerations for use by all our employees on multi-employer construction sites. On ground personnel are at highest risk of injury and possible fatality on grading construction projects. The company recognizes that construction activities will vary on each site and that job site safety is the contractor's responsibility. However, it is, imperative that all personnel be safety conscious to avoid accidents and potential injury.

In an effort to minimize risks associated with geotechnical testing and observation, the following precautions are to be implemented for the safety of our field personnel on grading and construction projects.

1. Safety Meetings: Our field personnel are directed to attend the contractor's regularly scheduled safety meetings.
2. Safety Vests: Safety vests are provided for and are to be worn by our personnel while on the job site.
3. Safety Flags: Safety flags are provided to our field technicians; one is to be affixed to the vehicle when on site, the other is to be placed atop the spoil pile on all test pits.

In the event that the contractor's representative observes any of our personnel not following the above, we request that it be brought to the attention of our office.

Test Pits Location, Orientation and Clearance

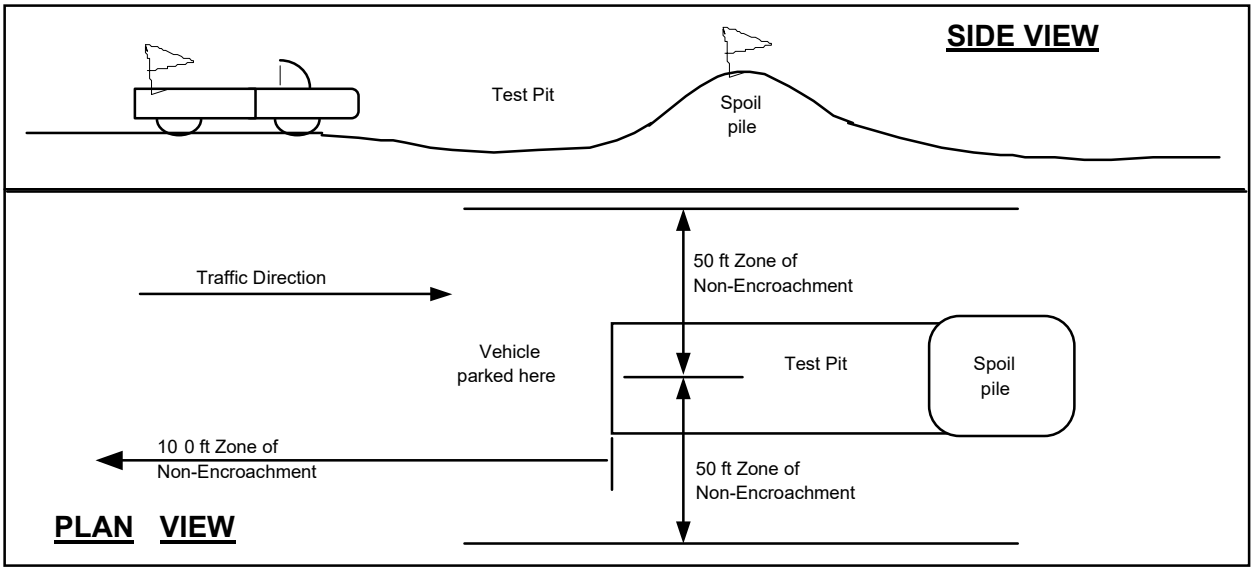
The technician is responsible for selecting test pit locations. The primary concern is the technician's safety. However, it is necessary to take sufficient tests at various locations to obtain a representative sampling of the fill. As such, efforts will be made to coordinate locations with the grading contractors authorized representatives (e.g. dump man, operator, supervisor, grade checker, etc.),

and to select locations following or behind the established traffic pattern, preferably outside of current traffic. The contractors authorized representative should direct excavation of the pit and safety during the test period. Again, safety is the paramount concern.

Test pits should be excavated so that the spoil pile is placed away from oncoming traffic. The technician's vehicle is to be placed next to the test pit, opposite the spoil pile. This necessitates that the fill be maintained in a drivable condition. Alternatively, the contractor may opt to park a piece of equipment in front of test pits, particularly in small fill areas or those with limited access.

A zone of non-encroachment should be established for all test pits (see diagram below). No grading equipment should enter this zone during the test procedure. The zone should extend outward to the sides approximately 50 feet from the center of the test pit and 100 feet in the direction of traffic flow. This zone is established both for safety and to avoid excessive ground vibration, which typically decreases test results.

TEST PIT SAFETY PLAN



Slope Tests

When taking slope tests, the technician should park their vehicle directly above or below the test location on the slope. The contractor's representative should effectively keep all equipment at a safe operation distance (e.g. 50 feet) away from the slope during testing.

The technician is directed to withdraw from the active portion of the fill as soon as possible following testing. The technician's vehicle should be parked at the perimeter of the fill in a highly visible location.

Trench Safety

It is the contractor's responsibility to provide safe access into trenches where compaction testing is needed. Trenches for all utilities should be excavated in accordance with CAL-OSHA and any other applicable safety standards. Safe conditions will be required to enable compaction testing of the trench backfill.

All utility trench excavations in excess of 5 feet deep, which a person enters, are to be shored or laid back. Trench access should be provided in accordance with OSHA standards. Our personnel are directed not to enter any trench by being lowered or "riding down" on the equipment.

Our personnel are directed not to enter any excavation which;

1. is 5 feet or deeper unless shored or laid back,
2. exit points or ladders are not provided,
3. displays any evidence of instability, has any loose rock or other debris which could fall into the trench, or
4. displays any other evidence of any unsafe conditions regardless of depth.

If the contractor fails to provide safe access to trenches for compaction testing, our company policy requires that the soil technician withdraws and notifies their supervisor. The contractor's representative will then be contacted in an effort to affect a solution. All backfill not tested due to safety concerns or other reasons is subject to reprocessing and/or removal.

Procedures

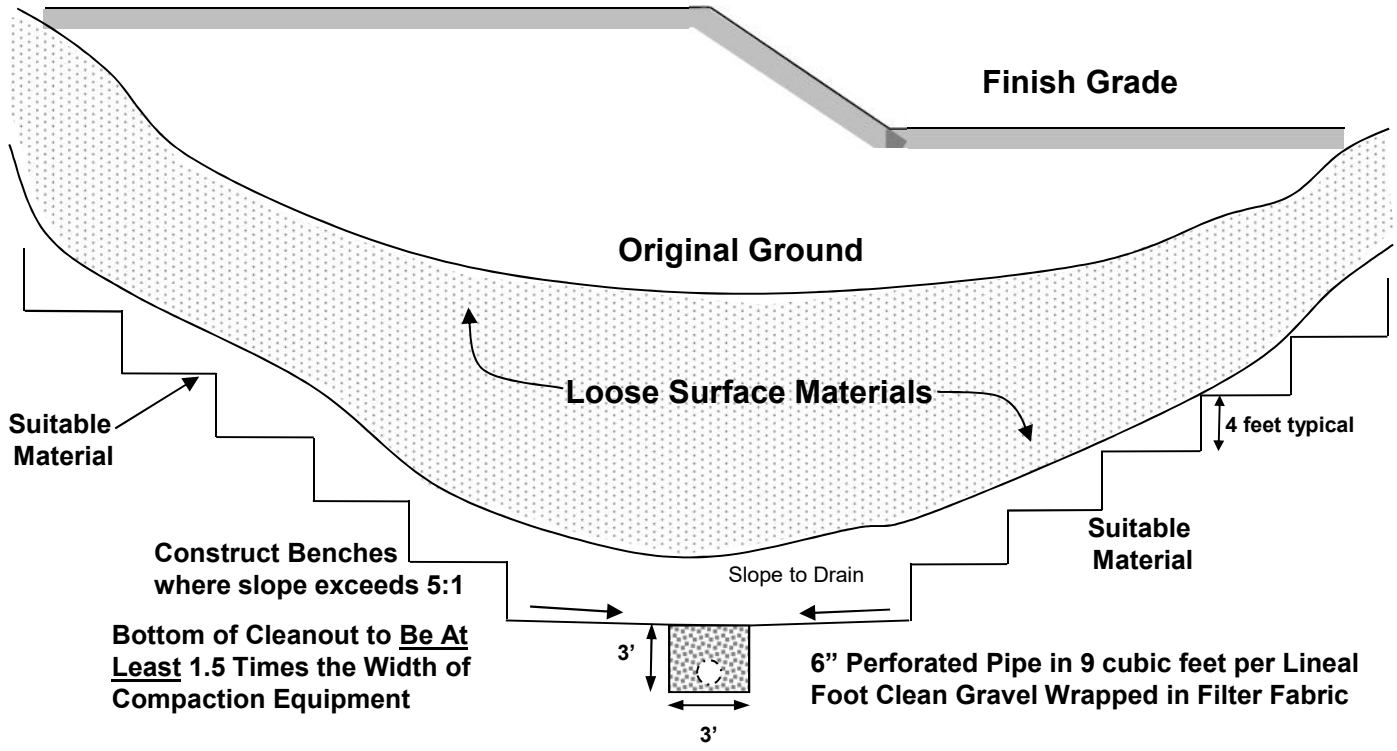
In the event that the technician's safety is jeopardized or compromised as a result of the contractor's failure to comply with any of the above, the technician is directed to inform both the developer's and contractor's representatives. If the condition is not rectified, the technician is required, by company policy, to immediately withdraw and notify their supervisor. The contractor's representative will then be contacted in an effort to affect a solution. No further testing will be performed until the situation is rectified. Any fill placed in the interim can be considered unacceptable and subject to reprocessing, recompaction or removal.

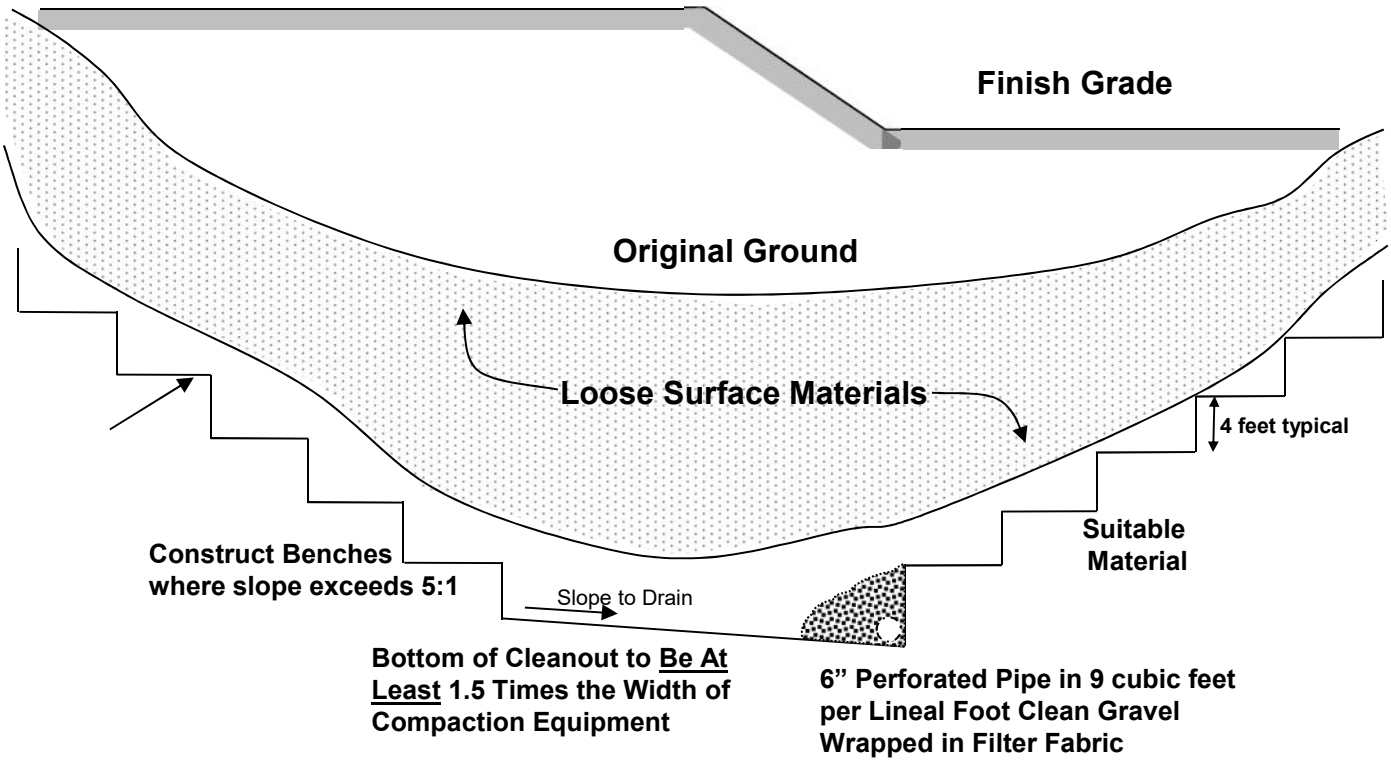
In the event that the soil technician does not comply with the above or other established safety guidelines, we request that the contractor bring this to technician's attention and notify our project manager or office. Effective communication and coordination between the contractors' representative and the field technician(s) is strongly encouraged in order to implement the above safety program and safety in general.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.

ALTERNATES





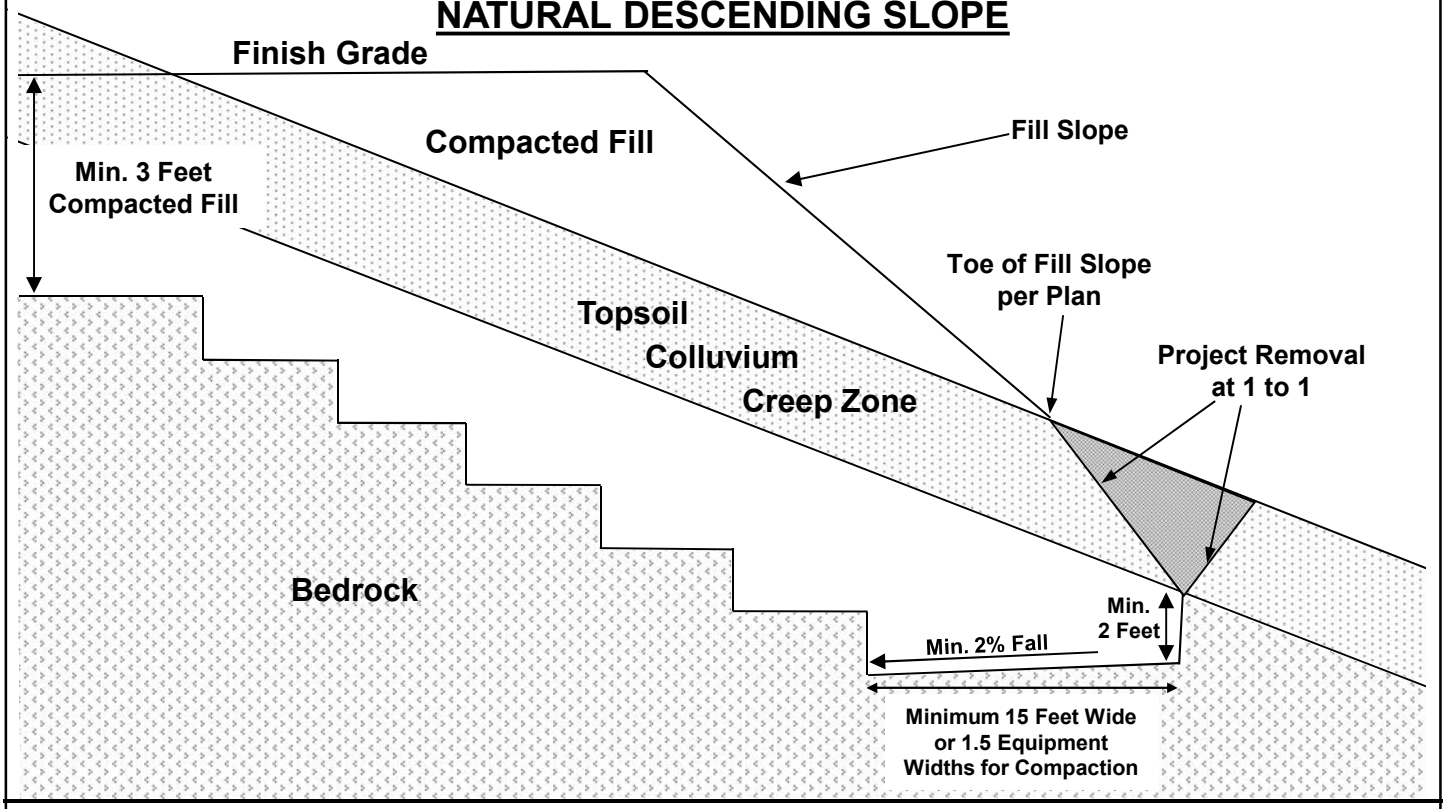
GEOTEK
1384 Poinsettia Avenue, Suite A
Vista, California 92083

TYPICAL CANYON CLEANOUT

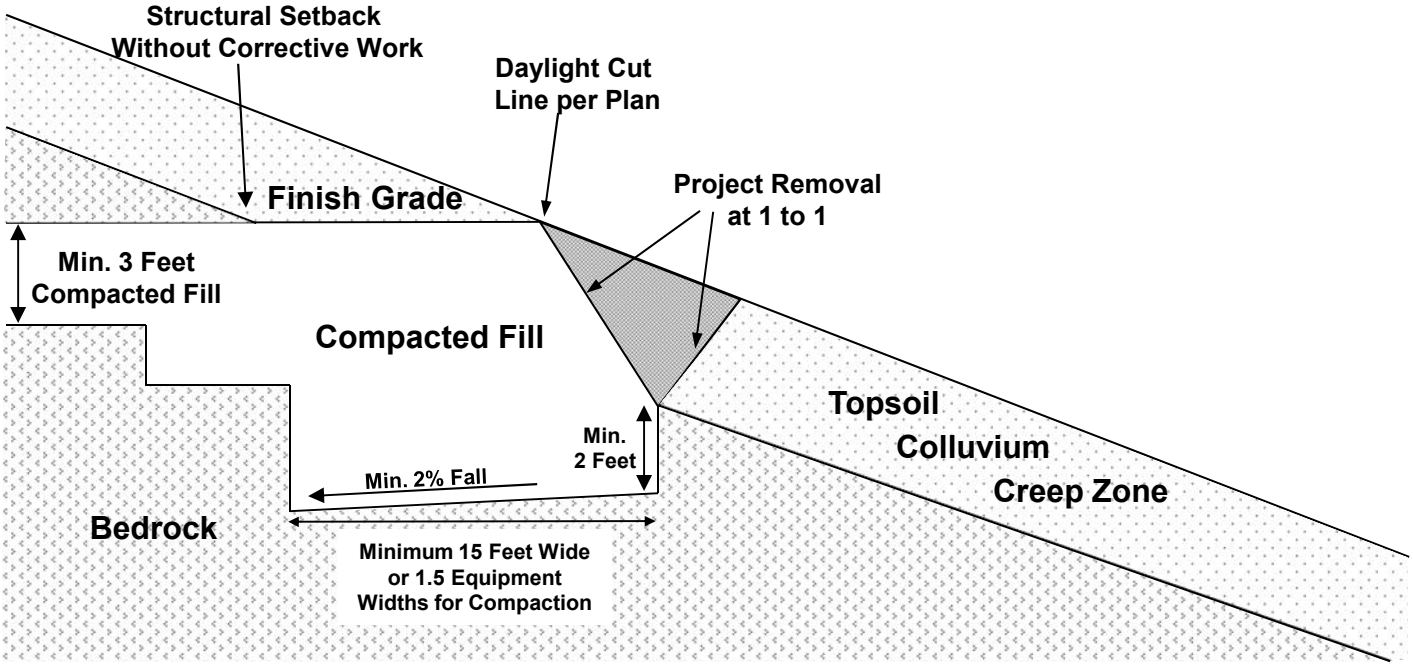
STANDARD GRADING GUIDELINES

PLATE G-1

TYPICAL FILL SLOPE OVER NATURAL DESCENDING SLOPE



DAYLIGHT CUT AREA OVER NATURAL DESCENDING SLOPE



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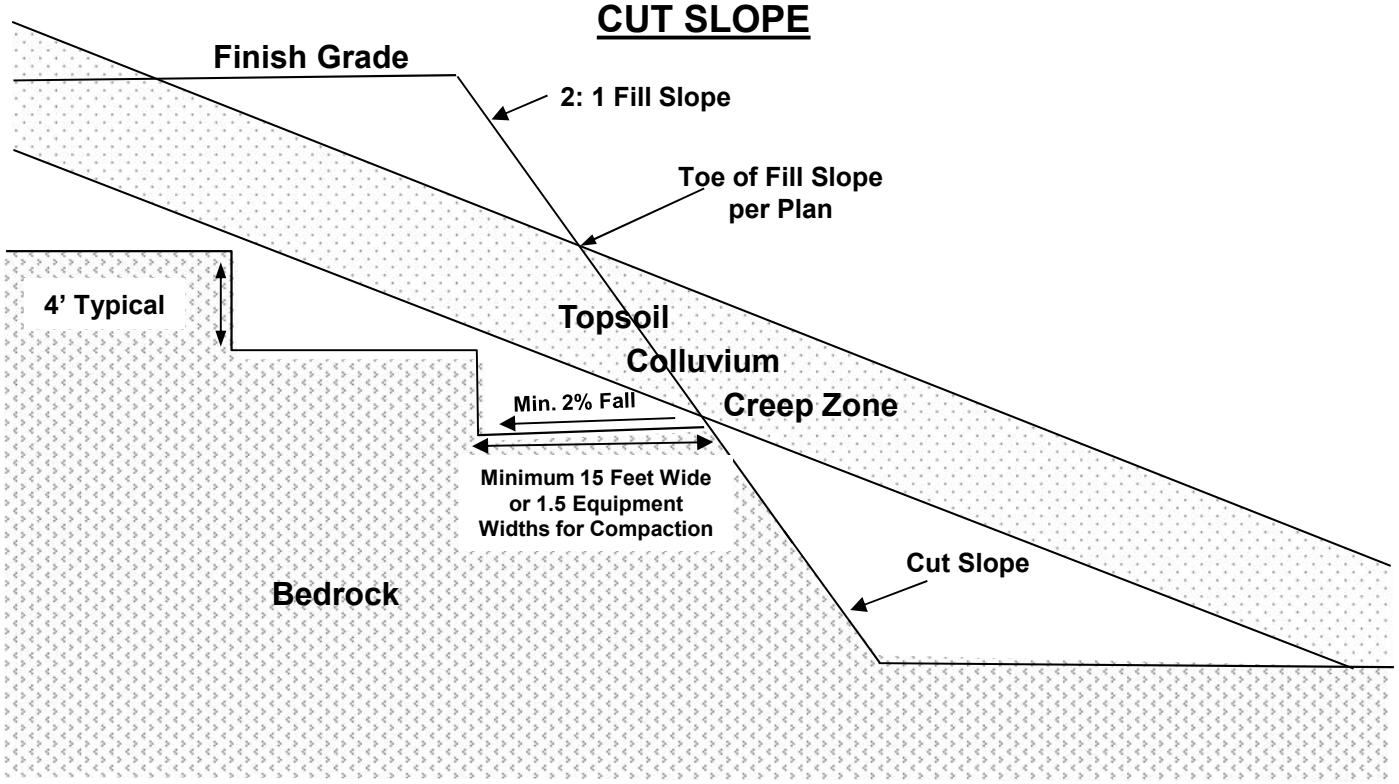
TREATMENT ABOVE NATURAL SLOPES

STANDARD GRADING GUIDELINES

PLATE G-2

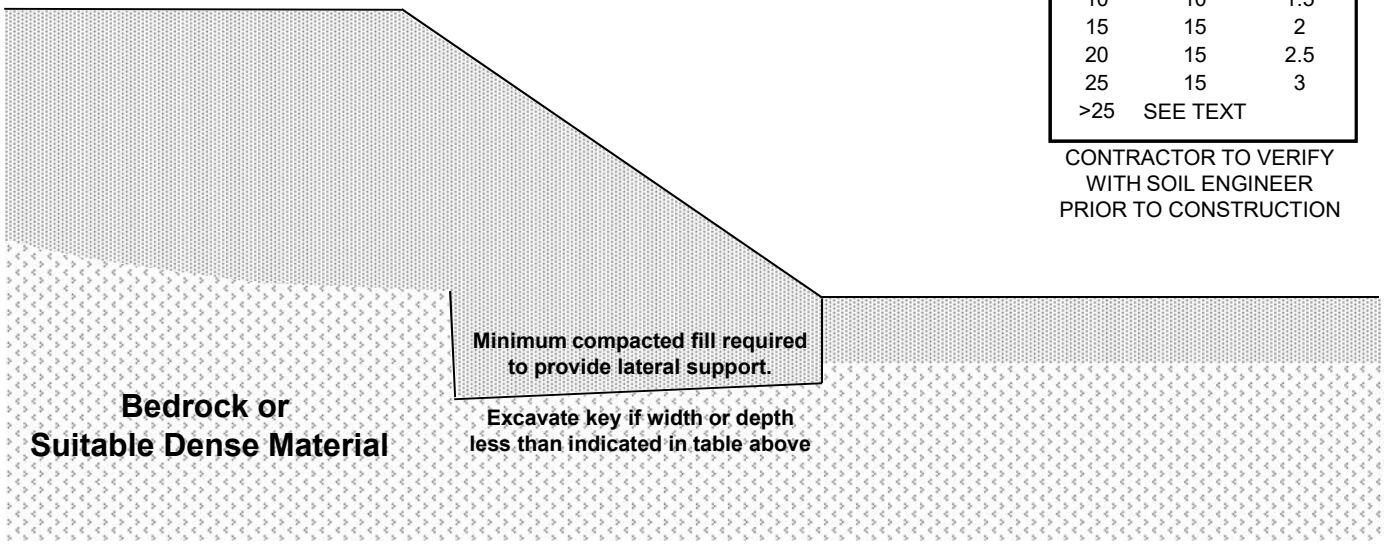
TYPICAL FILL SLOPE OVER CUT SLOPE



TYPICAL FILL SLOPE

SLOPE HEIGHT	MIN. KEY WIDTH	MIN. KEY DEPTH
5	7	1
10	10	1.5
15	15	2
20	15	2.5
25	15	3
>25	SEE TEXT	

CONTRACTOR TO VERIFY WITH SOIL ENGINEER PRIOR TO CONSTRUCTION



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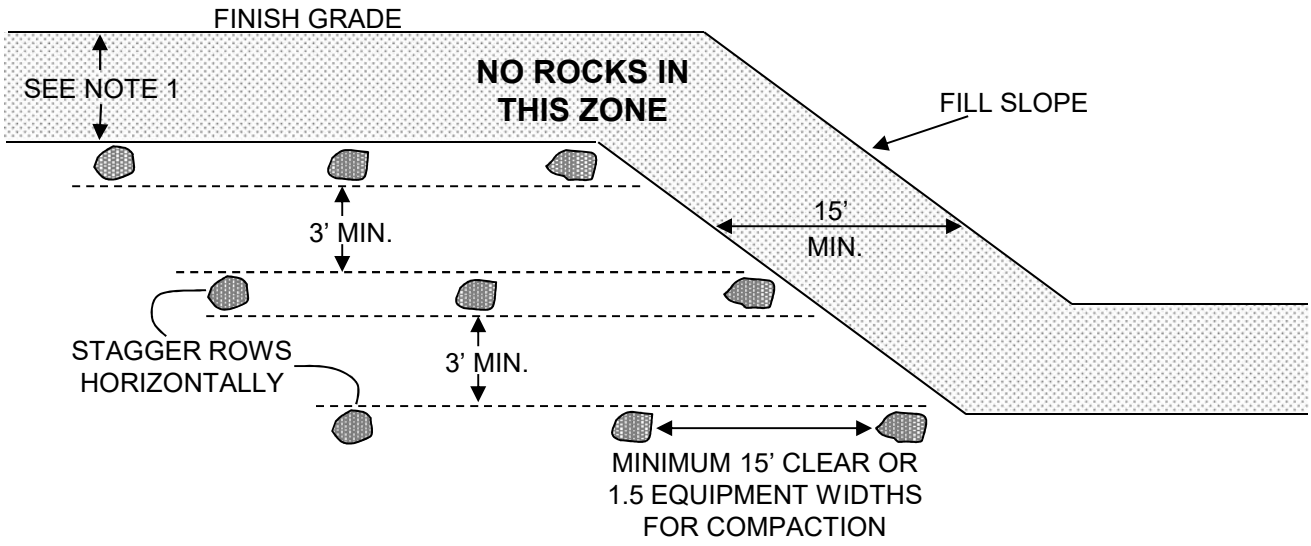
COMMON FILL SLOPE KEYS

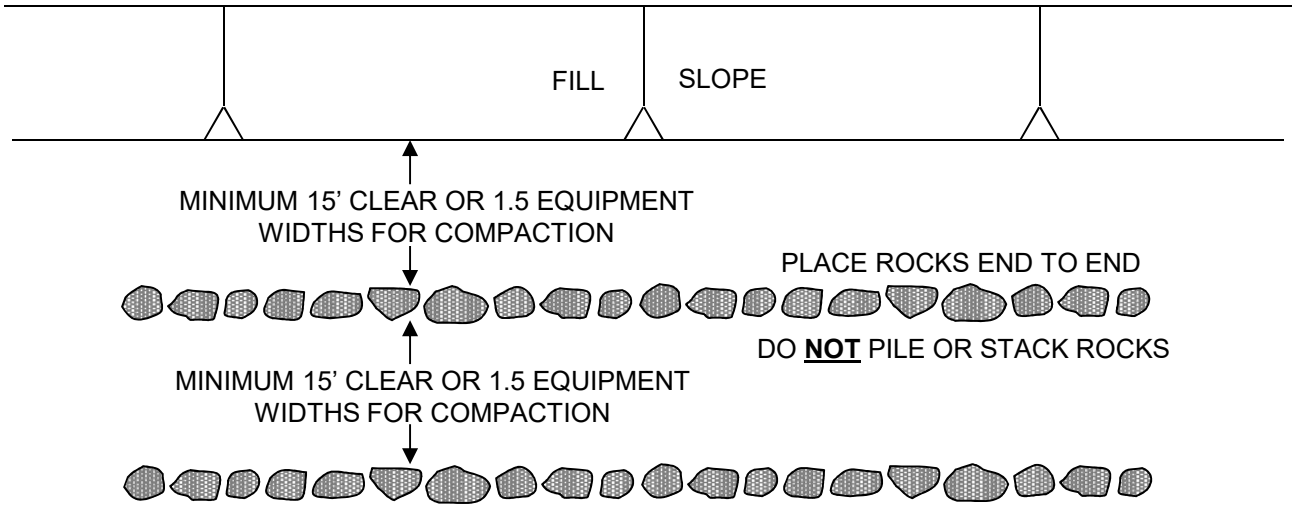
STANDARD GRADING GUIDELINES

PLATE G-3

CROSS SECTIONAL VIEW



PLAN VIEW



NOTES:

1) SOIL FILL OVER WINDROW SHOULE BE 7 FEET OR PER JURISDUICTIONAL STANDARDS AND SUFFICIENT FOR FUTURE EXCAVATIONS TO AVOID ROCKS
2) MAXIMUM ROCK SIZE IN WINDROWS IS 4 FEET MINIMUM DIAMETER
3) SOIL AROUND WINDROWS TO BE SANDY MATERIAL SUBJECT TO SOIL ENGINEER ACCEPTANCE
4) SPACING AND CLEARANCES MUST BE SUFFICIENT TO ALLOW FOR PROPER COMPACTION
5) INDIVDUAL LARGE ROCKS MAY BE BURIED IN PITS.

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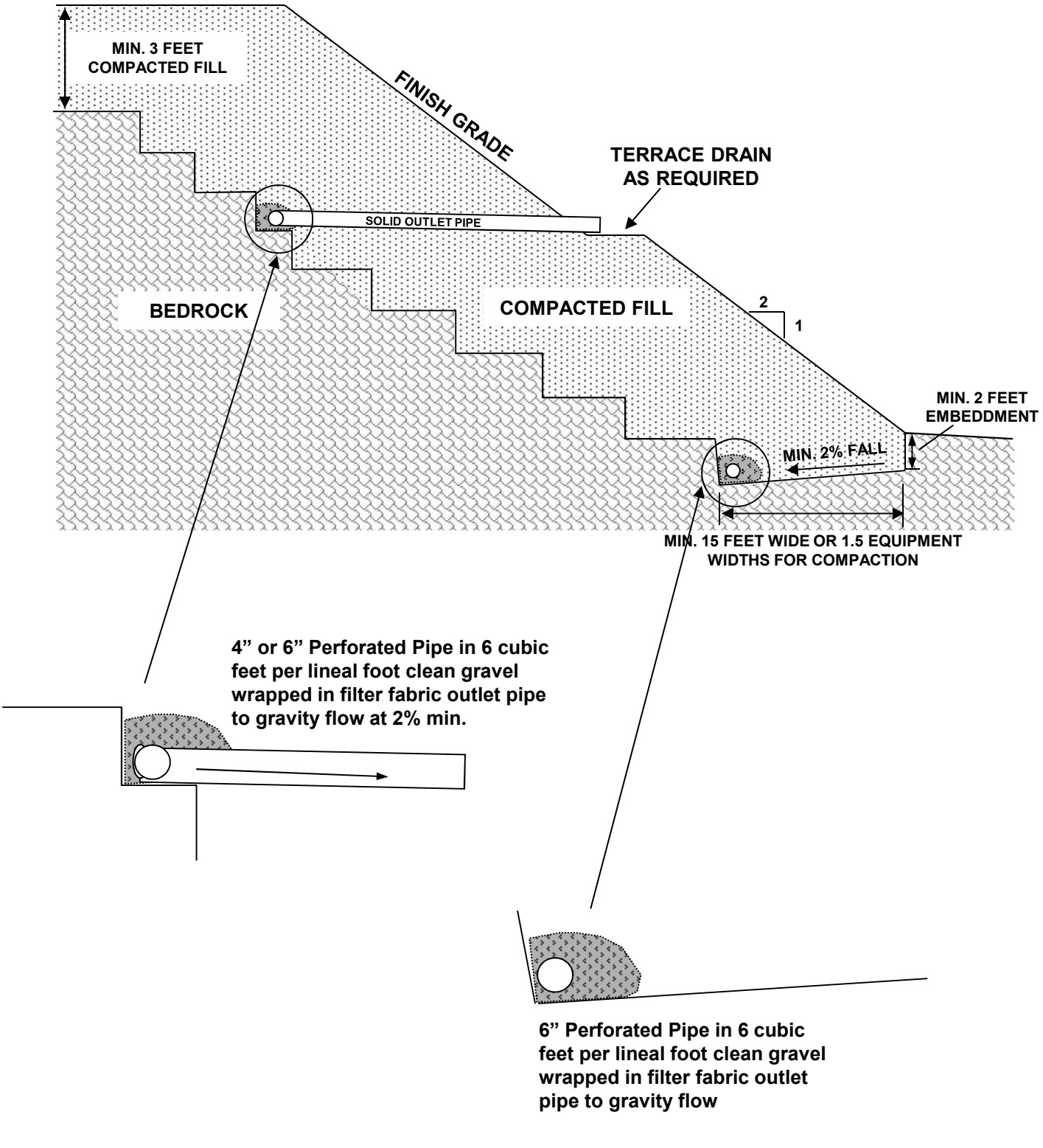
ROCK BURIAL DETAILS

STANDARD GRADING GUIDELINES

PLATE G-4



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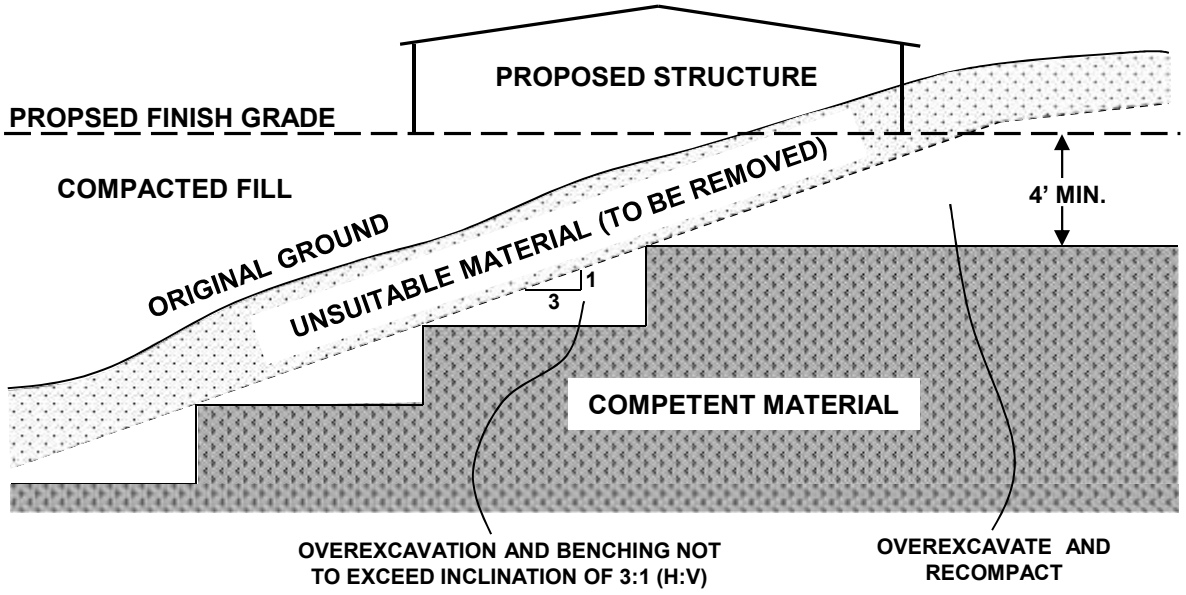
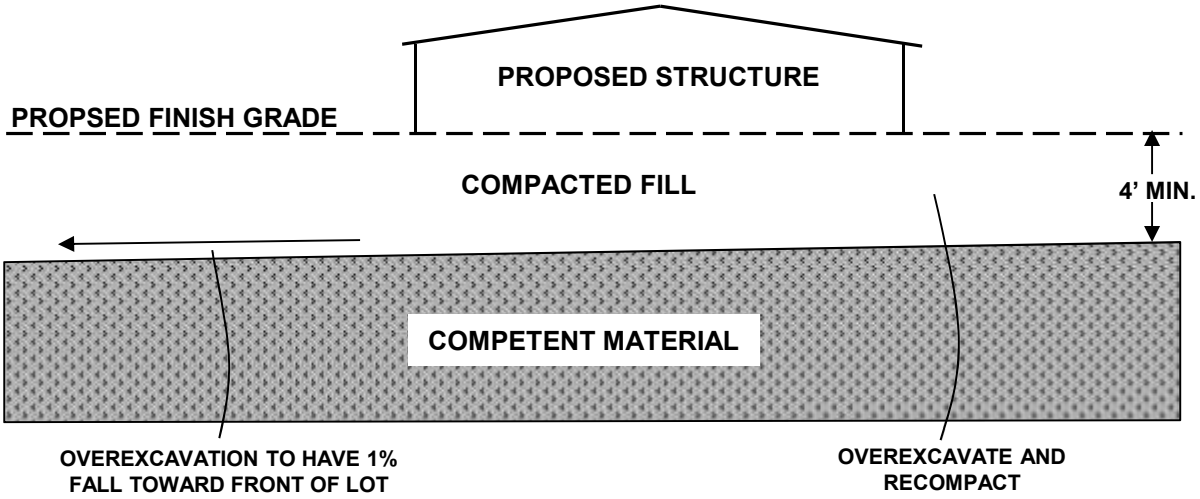
Typical Buttress and Stabilization Fill

PLATE G-5

TRANSITION LOT



UNDERCUT LOT



Notes:
1. Removed/overexcavated soils should be recompacted in accordance with recommendations included in the text of the report.
2. Location of cut/fill transition should verified in the field during site grading.

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TRANSITION & UNDERCUT LOTS

STANDARD GRADING GUIDELINES

PLATE G-6

Appendix F1

Paleontological Resources Assessment

6 February 2023

Shawna Johnson
Dudek
605 Third Street
Encinitas, CA 92024

RE: Paleontological Records Search – Pacifica Elementary School

Dear Ms. Johnson:

This letter presents the results of a paleontological records search conducted for the Pacifica Elementary School project (Project), located in the North Valley neighborhood in the northwestern portion of the City of Oceanside, San Diego County, California. The Project site is bordered to the north by residential development and Macario Drive; to the east by Monica Circle, Roja Drive, and residential development; and to the south and west by residential development.

Methods

A review of published geological maps covering the Project site and surrounding area was conducted to determine the specific geologic units underlying the Project site. Each geologic unit was subsequently assigned a paleontological resource sensitivity (Deméré and Walsh, 1993). In addition, a search of the paleontological collection records housed at the San Diego Natural History Museum (SDNHM) was conducted in order to determine if any documented fossil collection localities occur at the Project site or within the immediate surrounding area.

Results

Published geological reports (e.g., Kennedy and Tan, 2007) covering the Project area indicate that the proposed Project has the potential to impact late Pleistocene- to Holocene-age young alluvial flood plain deposits, middle to late Pleistocene-age old alluvial flood plain deposits, and the middle Eocene-age Santiago Formation. These geologic units and their paleontological sensitivity are summarized below.

The SDNHM does not have any recorded fossil localities within a one mile radius of the Project site (SDNHM, unpublished paleontological collections data; Figure 1).

Young alluvial flood plain deposits – Late Pleistocene- to Holocene-age (less than approximately 129,000 years old) young alluvial flood plain deposits underlie the central portion of the Project site at the surface. These deposits generally consist of unconsolidated sandy, silty, or clay-bearing alluvium deposited by the action of recently active streams. These deposits are assigned a low paleontological sensitivity based on their relatively young geologic age and lack of recorded fossil collection localities (Deméré and Walsh, 1993). However, they are likely underlain in the relatively shallow subsurface by a geologic unit with high paleontological sensitivity (i.e., the Santiago Formation, see below).

Old alluvial flood plain deposits – Middle to late Pleistocene-age (approximately 774,000 to 11,700 years old) old alluvial flood plain deposits underlie the southern portion of the Project site. These deposits consist of sediments derived from the surrounding uplands and deposited by the action of local streams. Elsewhere in northern San Diego County, similar deposits exposed in Pala Mesa, Bonsall, Vista, Carlsbad, and Oceanside have produced fossils of terrestrial plants, freshwater and terrestrial invertebrates (e.g., clams and snails), and terrestrial mammals (e.g., rodents, horse, tapir, camel, llama, deer, bison, mastodon, mammoth, and giant ground sloth) (Deméré and Walsh, 1993). Due to the scattered nature of fossil-bearing deposits within this geologic unit, old alluvial flood plain deposits are assigned a moderate paleontological sensitivity.

Santiago Formation – Strata of the middle Eocene-age (approximately 49 to 40 million years old) Santiago Formation underlie the northern portion of the Project site. Elsewhere in northwestern San Diego County, the Santiago Formation has produced significant assemblages of terrestrial fossil vertebrates, along with assemblages of marine and estuarine mollusks, and is considered to have a high paleontological sensitivity (Deméré and Walsh, 1993).

Summary and Recommendations

The high paleontological sensitivity of the Santiago Formation and the moderate paleontological sensitivity of old alluvial flood plain deposits in San Diego County (Deméré and Walsh, 1993) suggests the potential for construction of the proposed Project to result in impacts to paleontological resources. Any proposed excavation activities that extend deep enough to encounter previously undisturbed deposits of these geologic units (i.e., below the depth of any previously imported artificial fill or disturbed sediments present within the Project site) have the potential to impact the paleontological resources preserved therein. If such excavation is required for Project construction, implementation of a complete paleontological resource mitigation program during ground-disturbing activities is recommended. The mitigation program must include, at a minimum, measures for construction monitoring, fossil salvage and data recovery, laboratory preparation and curation of the fossils at an appropriate regional repository, and production of a final paleontological mitigation report.

If you have any questions concerning these findings please feel free to contact me at kmueller@sdnhm.org.

Sincerely,

Kirstin Mueller
Assistant Report Writer
San Diego Natural History Museum

Enc: Figure 1: Project map

Literature Cited

Deméré, T.A., and S.L. Walsh. 1993. Paleontological Resources, County of San Diego. Unpublished technical report prepared for the San Diego County Department of Public Works: 1–68.

Kennedy, M.P., and Tan, S.S. 2007. Geologic Map of the Oceanside 30' x 60' Quadrangle, California. California Geological Survey, Regional Geologic Map Series 1:100,000 scale, map no. 2.

SDNHM, unpublished paleontological collections data.

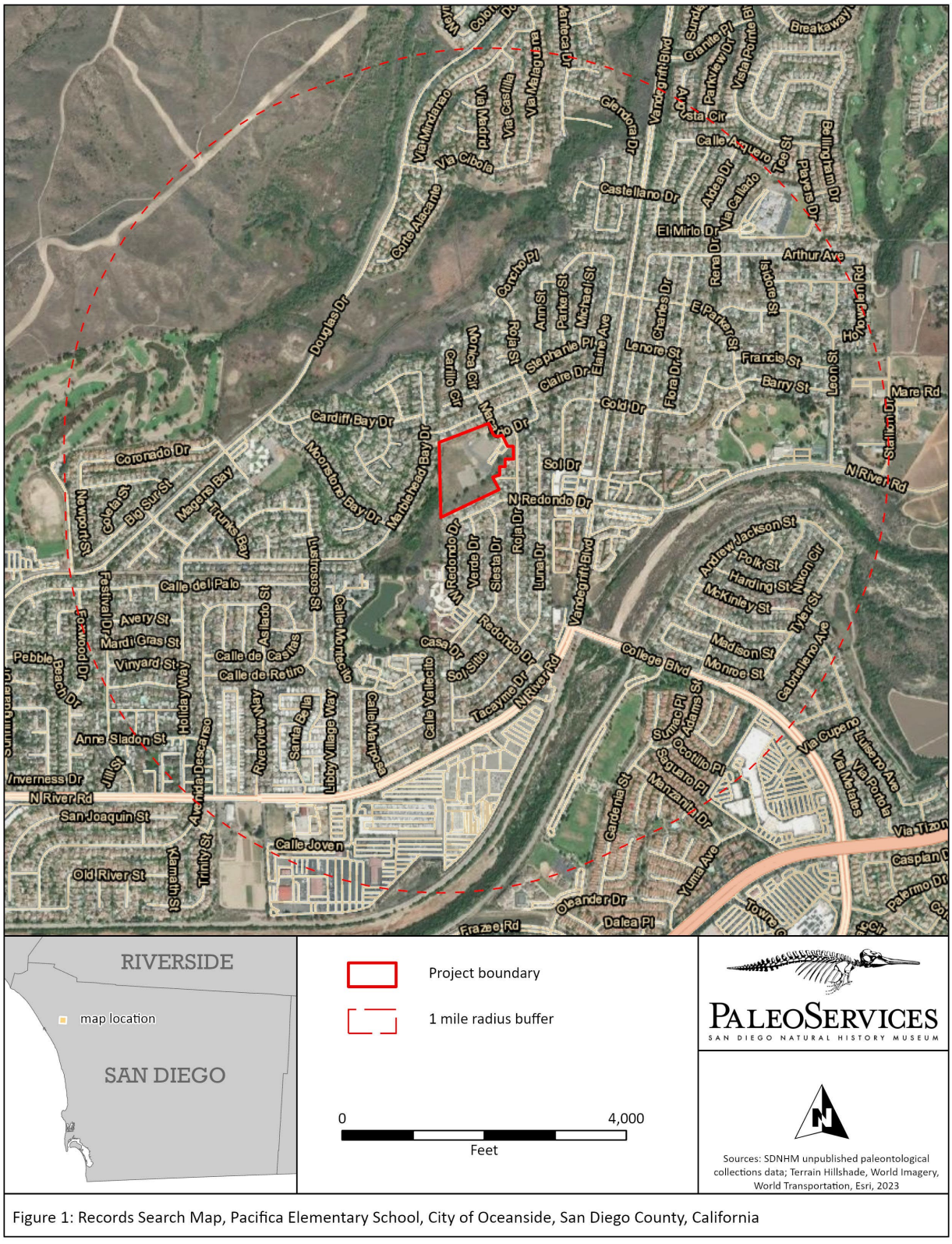

Figure 1: Records Search Map, Pacifica Elementary School, City of Oceanside, San Diego County, California

Appendix G
Phase I ESA

HILLMANN
CONSULTING

PHASE I ENVIRONMENTAL SITE ASSESSMENT

4991 Macario Drive
Oceanside, California 92057

Prepared For:

Meritage Homes
5 Peters Canyon Rd., Suite 310
Irvine, California 92606

October 28, 2021

Hillmann Project Number C3-8695

HILLMANN
CONSULTING

October 28, 2021

Mr. Matt Maehara
Meritage Homes
5 Peters Canyon Rd., Suite 310
Irvine, California 92606

RE: Phase I Environmental Site Assessment
4991 Macario Drive
Oceanside, California 92057
Hillmann Project No: C3-8695

Dear Mr. Maehara:

Hillmann Consulting LLC is pleased to provide the results of our Phase I Environmental Site Assessment of the above referenced property. This assessment was performed in general accordance with the scope and limitations of ASTM Practice E1527-13, which is the latest version of the E1527 standard published by the ASTM.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact our office at 714-634-9500.

Sincerely,

Hillmann Consulting, LLC

Shilpa Sunil
Senior Project Manager

Ryan Terwilliger
West Coast Operations Manager

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List of Abbreviations/Acronyms

Hillmann may use the following abbreviations and acronyms for common terminology described in our report. Not all abbreviations or acronyms may be applicable to this report:

ACM	– Asbestos Containing Material
AOC	– Area of Concern
AST	– Aboveground Storage Tank
ASTM	– American Society for Testing Materials
BER	– Business Environmental Risk
CEA	– Classification Exception Area
CERCLA	– Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	– Comprehensive Environmental Response Compensation and Liability Information System
CESQG	– Conditionally Exempt Small Quantity Generator
COC	– Chemicals of Concern
CORRACTS	– Corrective Action Sites
CREC	– Controlled Recognized Environmental Condition
DNPL	– Delisted National Priority List
DTSC	– Department of Toxic Substances Control
ENG	– Engineering
ERNS	– Emergency Response Notification System
FDEP	– Florida Department of Environmental Protection
FDNY	– Fire Department, City of New York
FDOT	– Florida Department of Transportation
FOI/FOIA/FOIL	– Freedom of Information / Freedom of Information Act / Freedom of Information Letter
HVAC	– Heating Ventilation & Air Conditioning
HREC	– Historic Recognized Environmental Condition
IAQ	– Indoor Air Quality
ISRA	– Industrial Site Recovery Act
LBP	– Lead-Based Paint
LQG	– Large Quantity Generator
LTANK	– Leaking Storage Tank
LUST	– Leaking Underground Storage Tank
MassDEP	– Massachusetts Department of Environmental Protection
SDS/MSDS	– Safety Data Sheet / Material Safety Data Sheet
NA	– Not Applicable
NCDOH	– Nassau County Department of Health
NFA	– No Further Action
NFRAP	– No Further Remedial Actions Planned
NJDEP	– New Jersey Department of Environmental Protection
NPDES	– National Pollutant Discharge Elimination System
NPL	– National Priority List
NYCDEP	– New York City Department of Environmental Protection
NYCDOB	– New York City Department of Buildings
NYCOER	– New York City Office of Environmental Remediation
NYSDEC	– New York State Department of Environmental Conservation
OPRA	– Open Public Records Act
PADEP	– Pennsylvania Department of Environmental Protection
PAH	– Polycyclic Aromatic Hydrocarbon
PCE	– Perchloroethylene
RAO	– Response Action Outcome
RCRA	– Resource Conservation and Recovery Act
RCRIS	– Resource Conservation and Recovery Information System
REC	– Recognized Environmental Condition
RWQCB	– Regional Water Quality Control Board
SCAQMD	– South Coast Air Quality Management District
SCDHS	– Suffolk County Department of Health Services
SDG	– Significant Data Gap
SEMS	– Superfund Enterprise Management System
SRP	– Site Remediation Program
SQG	– Small Quantity Generator
SVOC	– Semi-Volatile Organic Compound
TCE	– Trichloroethylene
TSDF	– Treatment Storage and/or Disposal Facility
USEPA	– United States Environmental Protection Agency
UST	– Underground Storage Tank
VEC	– Vapor Encroachment Condition
VOC	– Volatile Organic Compound

1.0 FINDINGS, OPINIONS, AND CONCLUSIONS

Hillmann Consulting, LLC (Hillmann) performed a Phase I Environmental Site Assessment (ESA) of 4991 Macario Drive, Oceanside, California (the Property). The assessment has been conducted in accordance with our contracted scope of work and the ASTM Standard Practice E 1527-13 for Phase I Environmental Site Assessments and All Appropriate Inquiries (AAI) Final Rule 40 CFR Part 312. This section contains a summary of findings, opinions and conclusions made by this assessment. However, this section, alone, does not constitute the complete assessment. The report must be read in its entirety.

1.1 Summary of Project Details

Primary Street Address:		4991 Macario Drive			
City:	Oceanside	**County:**	San Diego	**State:**	California
Tax ID/Parcel Number:		122-190-19-00 and 157-070-42-00			
Property Owner:		Oceanside Unified School District			
Zoning Designation:		Governmental/Public Use			
Approx. Property Area:		14.19 acres			
Buildings/# of Floors		N/A			
Approx. Building Area:		N/A			
Approx. Year Built:		N/A			
Commercial Occupants:		None - vacant			
Current Use:		Vacant lot			
Prior Uses:		Pacifica Elementary School			
Inspected By:		Ms. Gabriela Cyrulik			
Site Contact/Company:		Mr. Mitchell Maynard / Site Manager			
Site Escort/Company:		Unescorted			
Inspection Date:		October 12, 2021			
Weather Conditions:		Sunny, 70 degrees F			

1.2 Findings Summary Table

Assessment Subject	No REC	REC	CREC	HREC	Rpt. Ref.
Property Regulatory Records Review:	X				4.3
Property Historical Records Review:	X				4.2
Bulk Petroleum Storage:	X				5.3
On-Site Operations:	X				5.3
On-Site Haz-Mat Storage/Use/Spills:	X				5.3
Transformers/Hydraulic Systems:	X				5.3
Waste Discharges:	X				5.3
Interviews:	X				6.0
Adjoining & Nearby Properties:	X				4.3 5.2
Prior Env. Reports/User Provided Info:	X				3.0
Data Gaps:	X				2.3

1.3 Findings, Opinions and Conclusions

1.3.1 Recognized Environmental Conditions

Hillmann has performed a Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E1527-13 of the Property as described in Section 2 of this report. Any additions to, exceptions to, or deletions from this practice are also described in Section 2 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property, except for the following:

RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No RECs were identified.
HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No HRECs were identified.
CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No CRECs were identified
SIGNIFICANT DATA GAPS	
	No SDGs were identified.

1.3.2 REC Response Action Recommendations

The following table presents recommended response actions to the identified RECs for further investigation and/or corrective action:

REC RESPONSE ACTION SUMMARY TABLE	
REC	**Response Action**
	(No RECs were identified)

1.3.3 Notable Environmental Conditions / De Minimis Conditions

The following environmental conditions were identified, but are not considered to be a REC in connection with the Property:

NOTABLE ENVIRONMENTAL CONDITIONS / DE MINIMIS CONDITIONS	
1.	The Property consisted of vacant land prior to the mid-1970s, with an artificial pond present between the 1940s and 1960s. The Property was acquired by the Oceanside Unified School District in 1971 and the Pacifica Elementary School was subsequently constructed on-site. In approximately 2004, the former school structure was demolished and the Property continued to be used by the district with modular structures until the mid-2010s. The Property has remained unoccupied since approximately 2016.
2.	Hillmann observed two (2) utility owned pad-mounted transformers on the northwest corner of the Property. No staining and/or leakage was observed.
3.	Pacifica Elementary School at 4991 Macario Street is listed on the ENVIROSTOR, SCH, CERS databases. The ENVIROTOR/SCH listing indicated that the Property was on a DTSC – School Investigation site type, with a No Further Action letter provided as of 11/05/2003, indicating no contaminants had been found. The CERS listing indicated the Property name, address, and a CERS ID of 37820031. Hillmann reviewed available electronic documents posted on the Envirostor database, including a letter dated Nov 4, 2003 from the DTSC to the school district. The letter stated, in part: "*The Department of Toxic Substances Control (DTSC) reviewed the Phase I Environmental Site Assessment Addendum (Addendum), titled 'Additional Environmental Background Data," dated October 7, 2003 and received October 14, 2003. DTSC has also reviewed additional correspondences, received on September 5, and October 31, 2003. All additional information was prepared by Construction, Testing, and Engineering, Incorporated (CTE). The Addendum and correspondences were forwarded in response to a previous determination that a Preliminary Environmental Assessment was required for the site… The additional aerial photographs and a site appraisal report in the Addendum confirm that the site was undeveloped and not used for agriculture prior to construction of the school. … Based on the information provided in the Addendum and a site visit conducted by DTSC on September 11, 2003, neither a release of hazardous material nor the presence of naturally occurring hazardous material, which would pose a threat to human health or the environment under unrestricted land use, was indicated at the site. Therefore, DTSC concurs with the conclusion of the Addendum that further environmental investigation of the site is not required and hereby approves the Addendum. As with any real property, if previously unidentified contamination is discovered at the site, additional assessment, investigation, and cleanup may be required."* A separate DTSC letter to the district dated August 14, 2003 makes reference to additional information requested by DTSC and submitted by the district regarding on-site "import fill". Hillmann has requested copies of all environmental files for the former school investigation from both the school district and the DTSC. The available information in the November 4, 2003 DTSC letter and the closed Envirostor case status does not suggest a REC in connection with the former school investigation. However, a request and review of all available environmental documents associated with the Envirostor case has not been conducted and remains pending.

1.3.4 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a *property* of the nature, history and setting of the subject *property*. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

_____

David Rutherford
Environmental Professional

1.4 Business Environmental Risks / Non-ASTM Scope

Hillmann has performed a limited review of the following potential Business Environmental Risks (BER), also known as "Non-ASTM Scope concerns", in accordance with the contracted scope of work scope for this assessment. The following is a summary of findings for applicable BERs. For a more detailed discussion of the findings and contracted scope of work, please see the referenced report section.

BUSINESS ENVIRONMENTAL RISKS / NON-ASTM SCOPE			
Subject	**Findings**	**Not Appl.**	**Rpt. Ref.**
Asbestos		X	7.1
Lead Paint		X	7.2
Radon	Property is located in the USEPA radon designation Zone 3 or 'low risk' area for radon.		7.3
Mold / Microbial Damage		X	7.4
NWI Wetlands	No mapped wetland areas were depicted at the Property.		7.5
Lead in Drinking Water	Potable water service at the Property is provided by a utility connection with the City of Oceanside. A recently published water quality report from the utility indicated compliance with USEPA water quality standards for lead in drinking water. A copy of the report has been attached in Appendix F.		7.6

2.0 INTRODUCTION

2.1 Purpose and Scope

This assessment was conducted utilizing generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E1527-13. The ASTM describes these methodologies as representing good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"): that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B). The primary goal of the processes established by ASTM E1527-13 is to identify *recognized environmental conditions* in connection with the Property.

The term *recognized environmental condition (REC)* is defined by the ASTM as the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

The ASTM has also defined the terms *historical recognized environmental conditions* and *controlled recognized environmental conditions* as two additional types of RECs. The term *historical recognized environmental condition (HREC)* is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls or engineering controls).

The term *controlled recognized environmental condition (CREC)* is defined as a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

Conditions determined to be *"de minimis conditions"* are not considered to be RECs, HRECs or CRECs. *De minimis condition* is defined by the ASTM, "…as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

The chief components of this assessment are generally described as follows:

- A non-invasive visual reconnaissance of the Property and adjoining properties in accordance with ASTM guidelines for evidence of RECs.

- Interviews of past and present owners and occupants and state and local government officials, seeking information related to the potential presence of RECs at the Property.

- A review of standard physical record sources for available topographic, geologic and groundwater data.

- A review of standard historic record sources, such as fire insurance maps, city directories, aerial photographs, prior reports and interviews, etc., to determine prior uses of the Property from the present, back to the Property's first developed use, or back to 1940, whichever is earlier.

- A review of standard environmental record sources including federal and state environmental databases, and additional environmental record sources, to identify potential regulatory concerns with the Property, adjoining properties and properties located within the surrounding area.

An evaluation of environmental or other regulatory compliance matters is excluded from the scope of this assessment.

These methodologies are described as representing good commercial and customary practice for conducting an Environmental Site Assessment of a property for the purpose of identifying recognized environmental conditions.

2.1.1 Business Environmental Risks/Non-ASTM Scope Considerations

In accordance with our contract agreement, Hillmann may have addressed the following potential environmental subject matters that are outside of the requirements of the ASTM E1527-13 standard:

Asbestos-Containing Materials (ACM): A cursory non-intrusive visual screening for the presence of suspect ACM within the accessed areas of buildings built prior to 1990 on the Property. It is emphasized that this cursory non-intrusive visual screening does not constitute an asbestos survey/inspection of the premises. An asbestos survey/inspection should be sought by the report User(s) if more certainty is desired regarding ACM and potential asbestos hazards at the Property. Furthermore, a review of regulatory compliance matters pertaining to asbestos is excluded from the scope of work.

Lead-Based Paint (LBP): A cursory non-intrusive visual screening of the condition of painted surfaces in the accessed areas of residential buildings/units built prior to 1980 on the Property. It is emphasized that this cursory non-intrusive visual screening does not constitute a comprehensive survey for LBP or potential lead hazards. A comprehensive inspection should be sought by the report User(s) if more certainty is desired regarding LBP at the Property. Furthermore, a review of regulatory compliance matters pertaining to lead-based paint is excluded from the scope of work.

USEPA Designated Radon Potential: Review of general non-site specific data published by the USEPA regarding the Radon Zone classification for the area of the Property.

Mold/Microbial Damage: A cursory non-intrusive visual screening within the accessed areas of buildings on the Property for evidence of systemic microbial problems, including visible mold

growth, water damaged building materials or musty odors. It is emphasized that this cursory non-intrusive visual screening does not constitute a comprehensive survey for moisture/mold/microbial damage. A more comprehensive inspection should be sought by the report User(s) if more certainty is desired regarding the potential for moisture/mold/microbial damages at the Property.

NWI Wetlands: Review of US Fish and Wildlife Service National Wetland Inventory digitized data of mapped wetlands as presented in the attached EDR Radius Map plus Geocheck Report.

It is emphasized that, regardless of the wetlands data obtained via the EDR Geocheck-Physical Setting Source Addendum, a delineation of regulated wetlands by a qualified professional would be warranted to determine the presence or absence of regulated wetlands at the Property.

Lead in Drinking Water: Review of the potential for elevated levels of lead in the drinking water by determining the source of the drinking water supply and a review of available testing or compliance data reports.

2.2 Property Location/Legal Description

Property location and legal description details are described as follows:

Primary Street Address:	4991 Macario Drive				
City:	Oceanside	**County:**	San Diego	**State:**	California
Tax ID/Parcel Number:	122-190-19-00 and 157-070-42-00				
Approx. Land Area:	14.19 acres				
Apprx. Latitude/Longitude:	North 33.255975 degrees/West 117.304033 degrees				
Additional Details (if appl.):	NA				
Property Owner:	Oceanside Unified School District				
Zoning Designation:	Governmental/Public Use				

2.3 Data Gaps

A *data gap* is defined by the ASTM as a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. A data gap is only significant if other information and/or professional experience raises reasonable concerns involving the data gap and the ability to determine the presence or absence of recognized environmental conditions. The following table summarizes data gaps encountered during the assessment as well as a discussion of their significance.

Data Gap:	Significant (Yes/No)?	Discussion
Historical records data failure	No	The date and/or type of the first developed use of the Property was not documented.

		Record gaps exceeding five years were encountered; however, no significant site use changes are suspected during these intervals.
Response to agency records requests not received as of date of report.	No	Any additional information indicative of a REC will be forwarded upon receipt.

2.4 User Reliance

This report is for the exclusive use of the User(s) named on the front cover. No other party(ies) shall have any right to rely on the content of this report without first obtaining the consent of the original report User; and without obtaining written consent from Hillmann in the form of a letter of reliance or report recertification.

2.5 Significant Assumptions

The following significant assumptions are made:

- The site operations at the time of the site visit are assumed to reflect typical site conditions relative to potential environmental conditions and that no concealment of environmental conditions or releases by site owners or occupants has occurred. Likewise, it is assumed that no areas of the Property with potential environmental concerns or RECs were concealed or otherwise not reported, intentionally or unknowingly, by the Property owners/occupants and/or site escort at the time of the site visit.

- For the purpose of estimating the approximate direction of groundwater flow in the absence of site specific groundwater data, unless indicated otherwise, an assumption has been made that the gradient of groundwater flow follows the surface topography of the Property and immediate surrounding area.

2.6 General Limitations and Exceptions

2.6.1 Limitations

The report turnaround time specified by the contract agreement for this assessment may present a limitation to the availability of pertinent regulatory agency records. Such limitations, if encountered, are further specified in Section 4.4.

Significant limitations related to the condition or accessibility of the Property at the time of the site reconnaissance, if encountered, are reported in Section 5.1.

2.6.2 Other Exceptions or Deletions

No other exceptions or deletions from the ASTM Standard E1527-13 are reported.

2.6.3 Special Terms and Conditions

This Phase I Environmental Site Assessment has been prepared using reasonable efforts in each phase of its work to identify recognized environmental conditions associated with hazardous substances, wastes and petroleum products at the Property. Findings within this report are based on information collected from observations made on the day of the site reconnaissance and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, site development, redevelopment, or other construction purposes. No representation or warranty is made that the past or current operations at the Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes.

Findings, conclusions and recommendations presented in this report are based on visual observations of the Property, interviews conducted, the records reviewed, information provided by the Client, and/or a review of readily available and supplied drawings and documents. Information obtained during the assessment, whether written, graphic or verbal, provided by the Property contact(s) or as shown on any documents reviewed or received from the Property contact, owner or agent, or government agency source; is assumed to be accurate except as specifically stated otherwise in this report. Independent verification of the accuracy or completeness of all information reviewed or received during the course of this assessment is not made and excluded from the scope of work for this assessment. No warranty or guarantee is made of the accuracy or completeness of information that was obtained from ostensibly knowledgeable individuals, regulatory agency representatives or other secondary sources.

Regardless of the findings stated in this report, Hillmann is not responsible for consequences or conditions arising from facts that were concealed, withheld or not fully disclosed at the time the assessment was conducted.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The regulatory research is designed to meet the requirements of ASTM Standard E1527-13. Hillmann can neither warrant nor guarantee the accuracy or completeness of the information obtained from the regulatory database report provider during the course of this assessment.

Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques.

Reasonable efforts have been made during this assessment to identify aboveground and underground storage tanks and ancillary equipment. Reasonable efforts are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record and available information gathered from interviews. Such methods may not identify

surficial and subsurface features that may have been hidden from view due to parked automobiles and other vehicles, snow cover, vegetative growth, pavement, construction or debris pile storage or incorrect information from sources.

No guarantee, explicit or implied, is made that the records pertaining to historical ownership or occupancy which were reviewed represent a comprehensive or precise delineation of past Property ownership or tenancy for legal purposes.

The ASTM E1527-13 standard states that recommendations are not required to be included in a Phase I ESA report; however, further that recommendations are an additional service that may be useful in the User's analysis of landowner liability protections or business environmental risks; and that the User should consider whether recommendations for additional inquiries or other services are desired.

The recommended response actions to the identified RECs presented in Section 1.3, if any, are not intended to represent the only course(s) of action to take; nor does it imply any opinion as to the timing of the action. Furthermore, it is emphasized that additional response actions may become warranted depending on the outcome of the initial action(s) taken. Hillmann advises that consultation with legal counsel familiar with environmental and real estate law may be beneficial to the decision making process for the type and timing of a response action to identified RECs, if any.

Due to the limited nature of our review of potential Business Environmental Risks, the User of the report should consider whether to take additional action(s) to further define, properly manage and/or mitigate potential BERs.

In the event of any conflict between the terms and conditions of this report and the terms and conditions of the consulting services agreement for this project, the consulting services agreement shall control.

3.0 USER PROVIDED INFORMATION

The term "User" is defined by ASTM as the party seeking to use Practice E1527 to complete an environmental site assessment of the Property; specifically, the entities named on the front cover to which the report has been addressed.

3.1 Prior Environmental Reports/Documentation

No prior environmental reports/documentation were provided.

3.2 User Questionnaire

Section 6 of the ASTM E1527-13 standard describes certain tasks required to be performed by the report User in order to qualify for landowner liability protections to CERCLA liability. To assist the report User to meet these requirements, the ASTM E1527-13 standard recommends a questionnaire of inquiries (User Questionnaire) specified in 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31 be provided to the original report User. The following is a summary of the User's response:

Question:	Yes/No:	Detail:
Environmental liens that are filed or recorded against the property: Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	No	
Activity and use limitations that are in place on the property or that have been filed or recorded against the property: Did a search of recorded land title records (or judicial records where appropriate, identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	No	
Specialized knowledge or experience of the person seeking to qualify for the LLP: Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	No	
Relationship of the purchase price to the fair market value of the property if it were not contaminated: Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	No	
Commonly Known or Reasonably Ascertainable Information: Are you aware of commonly known or reasonably ascertainable information about the property that would help the		

Question:	Yes/No:	Detail:
environmental professional to identify conditions indicative of releases or threatened releases? For example,		
-Do you know the past uses of the property?	Yes	Elementary School
-Do you know of specific chemicals that are present or were once present at the property?	No	
-Do you know of spills or other chemical releases that have taken place at the property?	No	
-Do you know of any environmental cleanups that have taken place at the property?	No	
The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation: Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?	No	
Litigation/Administrative Proceedings/Government Notices As the User of this ESA, do you have knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.	No	

NR-no response

3.3 Reason for Performing Phase I ESA

The User did not indicate the purpose of the assessment. In accordance with ASTM E1527-13, it is assumed that the Phase I ESA was being performed in order to qualify for landowner liability protection to CERCLA liability.

4.0 RECORDS REVIEW

4.1 Physical Setting Sources

The following physical setting sources were reviewed:

Source	Discussion
USGS 7.5 minute Topographic Map Data: (EDR Geocheck-Physical Setting Source Addendum)	The Property lies at an elevation of approximately 89 feet above mean sea level. An interpretation of topographic contour lines as well as a review of the EDR Geocheck-General Topographic Gradient suggested terrain sloping downward towards the east-southeast. The closest down gradient water body is Libby Lake, located approximately 0.22 miles to the southwest.
USDA SCS Soil Data: (EDR Geocheck-Physical Setting Source Addendum)	The soil type at the Property is classified as "Grangeville". This soil type is described as fine sandy loam with moderate infiltration rates. Additionally, the soil type "La Flores" was identified at the Property and is described as loamy fine sand with very slow infiltration rates.
Geologic Data: (EDR Geocheck-Physical Setting Source Addendum)	The geologic formation in the vicinity of the Property is described as a stratified sequence of the Mesozoic Era, Cretaceous System, and Cretaceous granitic rocks Series.
Prior Env. Reports: (Section 3.1)	No prior environmental reports were obtained.
Additional Sources/ Data:	No additional physical setting sources or data was obtained.
Groundwater Flow Discussion:	Based on a review of the above information as well as observation of the site, the direction of shallow groundwater flow at the site is inferred to be towards the east-southeast.
NWI Wetlands Data: (EDR Geocheck-Physical Setting Source Addendum)	No NWI mapped wetlands areas were depicted at the Property.

4.2 Historical Use – Property and Adjoining Properties

Research has been conducted in an attempt to develop a history of the previous uses of the property and surrounding area, in order to help identify the likelihood of past uses having led to RECs in connection with the property. Standard historical sources have been sought in an attempt to document the past uses of the Property as far back as it can be shown that the Property contained structures; or from the time the Property was first used for residential, agricultural, commercial, industrial or governmental purposes.

4.2.1 Fire Insurance Maps

A Certified Sanborn Map Report was obtained from EDR for a review of published historic fire insurance maps for the Property and surrounding area. The following is a summary of site uses and notable details depicted by the available maps:

Year(s)	Prop/Adj	Depicted Use(s)	Notable Details
(No Coverage)	**Property:**		
	Adjoining:		

A copy of the Certified Sanborn Map Report is attached in Appendix D.

4.2.2 City Directories

An EDR City Directory Abstract report was reviewed for data of former occupants of the Property's street address. The following is a generalized summary of the findings of city directory research for past occupants of the Property.

Property	
Use(s) / Occupant(s):	**Years**
Pacifica Elementary School	1976 - 2009

The EDR City Directory Abstract report was also reviewed for listings of historic occupants of the adjoining properties. The following is a general summary of listings of historic adjoining property occupants:

Adjoining Properties	
Use and/or Occupant(s)	**Years**
Residential	1970 - 2017

A copy of the EDR City Directory report is attached in Appendix D.

4.2.3 Historical Topographic Maps

Historical topographic maps of the Property and vicinity obtained from an EDR Historical Topographic Map report (as attached in Appendix D) have been reviewed. The following interpretation of land usage was made by review of the maps:

Year(s)	Summary	
1893, 1898, 1901	**Property:**	Unmapped
	Adjoining:	Unmapped
1941, 1942, 1944, 1947, 1954	**Property:**	No structures; an intermittent stream traverses the Property
	Adjoining:	No structures or other significant features.
1948, 1949	**Property:**	No structures; a pond is depicted along the former intermittent stream channel.
	Adjoining:	No structures or other significant features.
1968	**Property:**	No structures or other significant features.
	Adjoining:	Residential to the east and south
1975, 1997	**Property:**	Unmapped
	Adjoining:	Unmapped
2012	**Property:**	No improvements or significant features were depicted.
	Adjoining:	No improvements or significant features were depicted.

4.2.4 Historical Aerial Photographs

Historical aerial photographs of the Property and vicinity obtained from an EDR Aerial Photo Decade Package report, as attached in Appendix D, and online via www.historicaerials.com were reviewed. The following interpretation of land usage has been made:

Year(s)	Summary of Interpretation	
1938	**Property:**	Undeveloped land with stream channel from northeast to southwest
	Adjoining:	Agricultural and/or undeveloped land
1946, 1953, 1964,	**Property:**	A pond from dammed stream channel; otherwise, undeveloped
	Adjoining:	Undeveloped/rural land. Residential subdivision to the southeast in 1964
1967, 1970	**Property:**	Undeveloped land w/disturbed earth at former pond (no longer present)
	Adjoining:	Residential to the north, east, and south; undeveloped land to the west
1978, 1985, 1989-1991, 1993-2000, 2002, 2003	**Property:**	Pacifica Elementary School structure and grounds
	Adjoining:	Residential
2005, 2009, 2012, 2014, 2016, 2018	**Property:**	Former elementary school structure is no longer present; several modular structures are present 2005-2014.
	Adjoining:	Residential

4.2.5 EDR High-Risk Historical Records

The EDR Radius Map™ report, which is discussed in greater detail in Section 4.3, provided a search of proprietary databases of potential historical high-risk uses at or in the vicinity of the Property. These databases include EDR Historic Cleaners – a database of property addresses with records of historical occupancy by suspected cleaners businesses; EDR Historic Auto – a database of property addresses with records of historical occupancy by potential automotive gas/filling stations and repair facilities; and EDR MGP- a database of sites historically occupied by manufactured gas plants and related facilities.

EDR Database	On-site Listings:	Adjoining/Off-Site Listings
Historic Cleaners: (on-site/adjoining only)	None	None
Historic Auto: (on-site/adjoining only)	None	None
MGP: (1-mile distance)	None	None

4.2.6 Petroleum/Natural Gas Well Review

The historical record sources and the California Geologic Energy Management Division (CalGEM) online mapping application were reviewed for records of historic petroleum and/or natural gas wells at the Property. No record of any historical petroleum/natural gas wells at or adjoining the Property was identified.

4.2.7 Additional Historical Data

Where applicable, the following additional pertinent historical data was obtained:

Interviews/Anecdotal:	The following additional pertinent historical data was obtained: An environmental questionnaire completed by the Oceanside Unified School District indicated that the district has owned the Property since 1971.

Local Gov't Records:	The following additional pertinent historical data was obtained: The Property is listed on the ENVIROSTOR and SCH databases. The listings indicated the Property was on the DTSC - School Investigation database, with a No Action required status as of 11/05/2003. A DTSC letter to the school district dated November 4, 2003 stated *"The additional aerial photographs and a site appraisal report in the Addendum confirm that the site was undeveloped and not used for agriculture prior to construction of the school."*
Prior Env. Reports: (Section 3.1)	Not applicable; no prior reports were provided.
Site Observations:	Indications of historic uses of the Property or adjoining properties were not observed during the site reconnaissance.
Other Sources:	No additional pertinent historical data was obtained.

4.2.8 Summary of Identified Historic Uses

The following table presents a summary of the types and approximate date ranges of identified prior uses of the Property:

Property	
Date Range	**Use**
1938 to early 1970s	Vacant lot with artificial pond from dammed stream channel 1940s to mid-1960s
Mid-1970s to 2010s	Pacifica Elementary School/Oceanside Unified School District
Mid-2010s to present	Vacant lot

The following table presents a summary of the types of identified prior uses of the adjoining properties:

Adjoining Properties	
Date Range	**Use**
1938 to 1953	Rural/agricultural land
1964 to present	Residential

4.2.9 Historical Records Data Failure

The ASTM E1527-13 standard defines data failure as a failure to achieve the ASTM specified historical research objectives after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. The objective is to identify all obvious uses of the property from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Furthermore, records of historic use/conditions should be sought in intervals no less than approximately five years, unless the property conditions appear unchanged over a longer interval.

Objective	Met?	Detail	Significant?
First developed use/date determined?	Yes	The first developed use of the Property was a public elementary school circa 1975.	NA
Record sources at 5-year intervals back to 1940 or first developed use?	No	Historical record gaps exceeding five years were encountered. However, significant site-use changes or undiscovered site uses appear unlikely to have occurred during the record gaps.	No

All obvious prior uses identified?	Yes	See Section 4.2.8.	NA

Please refer to Section 2.3 for additional discussion of data gaps and their significance to the findings of the assessment.

4.2.10 Historic Uses REC Discussion

The Property consisted of vacant land prior to the mid-1970s, with an artificial pond present between the 1940s and 1960s. The Property was acquired by the Oceanside Unified School District in 1971 and the Pacifica Elementary School was subsequently constructed on-site. In approximately 2004, the former school structure was demolished and the Property continued to be used by the district with modular structures until the mid-2010s. The Property has remained unoccupied since approximately 2016.

The review of historical records did not indicate evidence of a REC in connection with the Property.

4.3 Standard Environmental Record Sources

A regulatory database report, titled EDR Radius Map™ Report, prepared by Environmental Data Resources of Shelton, CT was obtained and reviewed. The report provided a search of standard environmental record sources for listings of the Property, adjoining properties and sites within the surrounding area; and has been reviewed for the purpose of identifying listings suggesting a potential impact to the Property due to presence or migration of hazardous substances and/or petroleum products. Additional descriptions of the meaning and significance of the regulatory databases can be found in the regulatory database report in Appendix E. The EDR Radius Map™ Report provided a search of the following database categories in accordance with the requirements of the ASTM Standard E1527-13:

Regulatory Database	Search Distance
Fed. National Priorities List (NPL/a.k.a. "Superfund" sites) & Proposed NPL	1-mile
Fed. Delisted NPL	½-mile
Fed. Superfund Enterprise Management System (SEMS; formerly CERCLIS)	½-mile
Fed. SEMS-ARCHIVE (formerly known as CERCLIS NFRAP)	½-mile
Fed. RCRA Corrective Action Sites (CORRACTS)	1-mile
Fed. RCRA Transport/Storage/Disposal (TSD) sites	½-mile
Fed. RCRA Generators (LQG, SGQ & CESQG)	Site & Adjoining
Fed. Institutional Control/Engineering Control (IC/EC) Registries	Site only
Fed. Emergency Response Notification System (ERNS)	Site only
State/Tribal Hazardous Waste Sites (SHWS)	1-mile
State/Tribal Landfill and/or Solid Waste Disposal (LF/SWF)	½-mile
State/Tribal Leaking Storage Tanks	½-mile
State/Tribal Registered Storage Tanks	Site & Adjoining
State/Tribal IC/EC Registries	Site
State/Tribal Voluntary Cleanup Sites	½-mile
State/Tribal Brownfields	½-mile
Additional Federal, State, Tribal and Local Environmental Databases	Variable

Reported distances for adjoining listings discussed in Section 4.3.4, if applicable, are approximate and indicative of the presence of a public roadway or right-of-way between the adjoining site and Property.

The reported gradients indicated where applicable in Sections 4.3.4 and 4.3.5 have been estimated based on a number of factors including but not necessarily limited to field observation, review of topographic maps, database listing details and/or site specific geo-technical data.

4.3.1 Supplemental Database Listings

The regulatory database report was also reviewed for listings on supplemental databases, in addition to the Standard Environmental Record Sources. Any property or adjoining property listings on such databases of significant concern, if identified, is discussed in Sections 4.3.3 and 4.3.4. Otherwise, none of the other supplemental database listings identified by the regulatory database report are considered to be a REC in connection with the Property.

4.3.2 Limited Tier I Vapor Encroachment Screening

Limited analysis of the details of on-site, adjoining and vicinity database sites was conducted to identify potential sources of sub-surface vapor encroachment. This review was based on elements of the ASTM "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" (ASTM E 2600-15); and also on elements of "Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources" (Buonicore, 2011-S-103-AWMA). Vicinity database sites pertaining to non-petroleum product releases within 1,760 feet of the Property in the up-gradient direction, 365 feet of the Property in the cross gradient direction and 100 feet of the Property in the down gradient direction; and vicinity database sites pertaining to petroleum product releases within 528 feet of the Property in the up-gradient direction, 165 feet of the Property in the cross gradient direction and 100 feet of the Property in the down gradient direction were reviewed to identify active contamination sites with the potential to affect subsurface vapor conditions at the subject property. The potential for vapor encroachment was considered in assessing whether or not a REC exists in connection with the Property when reviewing applicable sites within those distances.

Regulatory database sites with active petroleum or non-petroleum releases that are considered to constitute a vapor encroachment condition (VEC) to the Property, if any, are identified and discussed in Sections 4.3.3, 4.3.4 and 4.3.5.

4.3.3 Property Listings

The following listings of the Property were identified:

Name/Address:	Pacifica Elementary School / 4991 Macario Street
Database(s):	ENVIROSTOR, SCH, CERS
Data Discussion:	The ENVIROTOR/SCH listing indicated that the Property was on a DTSC – School Investigation site type, with a No Further Action letter provided as of 11/05/2003, indicating no contaminants had been found. The CERS listing indicated the Property name, address, and a CERS ID of 37820031. Hillmann reviewed available electronic documents posted on the

	Envirostor database, including a letter dated November 4, 2003 from the DTSC to the school district. The letter stated: "*The Department of Toxic Substances Control (DTSC) reviewed the Phase I Environmental Site Assessment Addendum (Addendum), titled 'Additional Environmental Background Data," dated October 7, 2003 and received October 14, 2003. DTSC has also reviewed additional correspondences, received on September 5, and October 31, 2003. All additional information was prepared by Construction, Testing, and Engineering, Incorporated (CTE). The Addendum and correspondences were forwarded in response to a previous determination that a Preliminary Environmental Assessment was required for the site. Based on review of the original Phase I Environmental Assessment, dated November 4, 2002, DTSC originally determined a PEA was required on August 14, 2003.* *"The Site consists of approximately 10-acres, currently occupied by an elementary school. Based on the aerial photographs provided in the Phase I, dated November 14, 2002, the site appears to be located in an agricultural region during the years of 1950 through 1965. Since information was not provided to substantiate the site was not used for agriculture, DTSC had concerns that persistent agricultural chemicals from pesticides and fertilizers may have impacted the site. Also, additional information was required for the evaluation of lead-based paint.* *"The additional aerial photographs and a site appraisal report in the Addendum confirm that the site was undeveloped and not used for agriculture prior to construction of the school. Additional information in the Addendum and correspondences demonstrated the lead-based paint evaluation was complete and adequately conducted.* *"Based on the information provided in the Addendum and a site visit conducted by DTSC on September 11, 2003, neither a release of hazardous material nor the presence of naturally occurring hazardous material, which would pose a threat to human health or the environment under unrestricted land use, was indicated at the site. Therefore, DTSC concurs with the conclusion of the Addendum that further environmental investigation of the site is not required and hereby approves the Addendum. As with any real property, if previously unidentified contamination is discovered at the site, additional assessment, investigation, and cleanup may be required."* A separate DTSC letter to the district dated August 14, 2003, makes reference to additional information requested by DTSC and submitted by the district regarding on-site "import fill". Hillmann has requested copies of all environmental files for the former school investigation from both the school district and the DTSC. The available information in the November 4, 2003 DTSC letter and the closed Envirostor case status does not suggest a REC in connection with the former school investigation. However, a review of all available environmental documents associated with the Envirostor case has not been conducted and remains pending.
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.
VEC Discussion:	Based on the available data, a VEC is not suspected.

4.3.4 Adjoining Property Listings

The following adjoining property listings were identified. Reported distances, where applicable, are approximate and indicative of the presence of a public roadway or right-of-way between the adjoining site and Property. The reported gradient has been estimated based on a number of factors including but not necessarily limited to field observation, review of topographic maps, database listing details and/or site specific geo-technical data.

Name/Address:	None				
Database(s):					
Distance in feet:		**Direction:**		**Gradient:**	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

4.3.5 ASTM Search Distance Findings

The following is a discussion of non-adjoining sites identified as located within the ASTM specified search distance surrounding the Property. In order to keep this discussion informative and concise, discussion(s) is/are provided of the listed site(s) for each database category that appears most likely to impact the Property based on distance, area topography and/or regulatory status. Listings of sites within the applicable search distances not specifically discussed below were reviewed and concluded not to be RECs in connection with the Property or VECs based on various factors including distance, area topography, known or inferred groundwater flow direction and/or regulatory status. Listings for the following databases, if identified, have been discussed above in Sections 4.3.3 and 4.3.4: Registered Storage Tanks, Federal RCRA Generators, Federal and State EC/IC, ERNS. A copy of the full regulatory database report, including available details of all listed sites, is included in Appendix E.

Federal NPL				**# of sites:**	1	**Search Distance:**	1-mile
Notable Listing:	Camp Pendleton Marnie Corps Base						
Distance in feet:	4,191	**Direction:**	NW	**Gradient:**	Up		
Data Discussion:	The NPL listing indicated the site has been utilized as a training base facility for the fleet marine force since 1941. Groundwater and soil are contaminated at the site with various hazardous substances such as copper, arsenic, lead, dioxins, DDT, heptachlor, lindane, zinc, lead, benzene, xylene, TCE, PCBs, PAHs, methyl ethyl ketone, and silvex was found in multiple drinking wells, and 30,000 tons of contaminated soil has been excavated and disposed off-site since 1996. Since 2004, the EPA has been actively involved in the cleanup of the site, where leaking UST are being cleaned, along with contaminated groundwater and drinking water are being excavated and diluted of tritium. The clean-up activities are on-going, however, based on the distance this listing does not indicate a REC with connection to the Property.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

Federal Delisted NPL				**# of sites:**	0	**Search Distance:**	1-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

Federal SEMS				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							

VEC Discussion:	

Federal SEMS-ARCHIVE				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

Federal CORRACTS				**# of sites:**	1	**Search Distance:**	1-mile
Notable Listing:	Camp Pendleton Marine Corps Base						
Distance in feet:	4,191	**Direction:**	NW	**Gradient:**	Up		
Data Discussion:	The NPL listing indicated the site has been utilized as a training base facility for the fleet marine force since 1941. Groundwater and soil are contaminated at the site with various hazardous substances and heavy metals such as copper, arsenic, lead, dioxins, DDT, heptachlor, lindane, zinc, lead, benzene, xylene, TCE, PCBs, PAHs, methyl ethyl ketone, and silvex was found in multiple drinking wells, and 30,000 tons of contaminated soil has been excavated and disposed off-site since 1996. Since 2004, the EPA has been actively involved in the cleanup of the site, where leaking UST are being cleaned, along with contaminated groundwater and drinking water are being excavated and diluted of tritium. The clean-up activities are on-going, however, based on the distance this listing does not indicate a REC with connection to the Property.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

Federal RCRA-TSD				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State HAZARDOUS WASTE SITE				**# of sites:**	5	**Search Distance:**	1-mile
Notable Listing:	Morrow Hills Elementary / El Mirlo Drive						
Distance in feet:	2,465	**Direction:**	NNE	**Gradient:**	Cross		
Data Discussion:	ENVIROTOR/SCH listing indicated that the Property was on a DTSC – School Investigation site indicating that potential pesticides from production such as DDE, zinc, antimony, and nickel compounds were found in the soil. However, the site was granted with a No Further Action letter provided as of 05/04/2000.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

State SOLID WASTE FACILITY/LANDFILL				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State LEAKING STORAGE TANKS				# of sites:	3	Search Distance:	½-mile
Notable Listing:	7-Eleven Store #20342 / 487 Vandegrift						
Distance in feet:	905	**Direction:**	SSE	**Gradient:**	Down		
Data Discussion:	The LUST listing indicated the soil was contaminated at the site with gasoline from a leaking UST, with a leak first confirmed as of 09/13/1993. Additionally, TPHg and benzene were detected in groundwater samples, and by 1996 approximately 50 gallons of liquid waste was removed from two wells at the site. The site underwent remedial and excavation activities, and was granted a No Further Action Letter as of 04/27/2015; however, based on the down-gradient location this listing does not indicate a REC with connection to the Property.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

State VOLUNTARY CLEANUP SITES				# of sites:	0	Search Distance:	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State BROWNFIELD SITES				# of sites:	0	Search Distance:	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

UNMAPPED/ORPHAN LIST SITES	
Notable Listings:	Hillmann has also reviewed a list of unmapped sites (a.k.a. "Orphan List" sites) indicated by the database report. Unmapped sites that were identified as falling within an applicable specific search distance or warranting discussion have either been discussed in the preceding tables or are detailed below: None

4.4 Additional Environmental Record Sources

Requests have been submitted to local, municipal and state agencies for pertinent records pertaining to the Property, particularly with regard to potential environmental concerns such as petroleum storage tanks, storage and usage of hazardous substances and petroleum products, and/or known or suspected environmental contamination. Where applicable, internet research of government environmental regulatory databases was also conducted, as well as a general cursory internet search of the Property address, for information indicative of a REC. The following table summarizes the findings of the research:

Source	Type of Request	Outcome
San Diego Air Pollution Control District	FOI request	A response was recieved stating that no records were found.

Source	Type of Request	Outcome
City of Oceanside	FOI request	No response was received prior to report issuance.
San Diego County Department of Environmental Health	FOI request	A response was recieved stating that no records were found.
DTSC	FOI request	A response was recieved stating that no records were found.
City of Oceanside Fire Department	FOI request	No response was received prior to report issuance.
Regional Water Quality Control Board (RWQCB)	FOI request	A response was recieved stating that no records were found.
CA DTSC (Envirostor)	Online search	Hillmann reviewed available on-line records pertaining to the Property. The following pertinent records and/or information was obtained: DTSC letter dated Aug 4, 2003, referencing a submittal regarding on-site "import fill".
CA SWRCB (GeoTracker)	Online search	Hillmann reviewed available on-line records pertaining to the Property. No information indicative of a REC was identified.
EPA MyProperty	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
EPA Envirofacts	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
Real Quest	Online search	Basic Property information such as parcel number, date of construction, and building square footages were collected. Pertinent information, where obtained, is referenced in the appropriate sections of this report.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of the Property and improvements, adjoining properties as viewed from the Property boundaries and the surrounding area based on visual observations from adjoining public thoroughfares. Building exteriors were observed at ground level, unless otherwise indicated. Where applicable, representative areas of building interiors were accessed and observed to the extent they were made safely accessible with the cooperation of the site escort.

Site Inspection Personnel:	Ms. Gabriela Cyrulik
Property Escort/Company:	Unescorted
Inspection Date:	October 12, 2021
Weather Conditions:	Sunny, 70 degrees F

5.1.1 Significant Inaccessible Areas

No significant areas of the Property inaccessible at the time of the inspection were noted.

5.1.2 Significant Limiting Site Conditions

No significant limiting site conditions were noted at the time of the site reconnaissance.

5.2 General Site Setting

5.2.1 Site and Vicinity Characteristics

Abutting Roadways:	Macario Drive to the north; Roja Drive to the east
Current Property Use:	Vacant lot
Evidence of Past Property Uses:	Asphalt remaining from the elementary school that was previously on the Property
Evidence of Past Adjoining Property Uses:	None observed
Surrounding Area Uses:	Residential

5.2.2 Current Adjoining Property Uses

Dir	Street Address	Description
N	Macario Dr	Residential
E	Roja Dr	Residential
W	Marblehead Bay Dr	Residential
S	Redondo Dr	Residential

No visual observations indicative of a potential environmental concern were noted on the adjoining properties.

5.2.3 Topographic Characteristics

Terrain:	Flat to gently sloping
Direction of Downward Slope:	Towards the east-southeast
On-site Water Bodies:	None observed
Other Significant Features:	None observed

5.2.4 General Description of Structures

Buildings/# of Floors	N/A
Approx. Building Area:	N/A
Approx. Year Built:	N/A
Ancillary Structures:	The site contains a sewage pumping station, areas of pavement and associated utilities that are remnants of the former school facility.
Sources of Heating & Cooling:	No heating or cooling systems were present at the Property.
Potable Water/Sewage Disposal:	Municipal utility connections are available; no active service present.

5.3 Interior & Exterior Observations

5.3.1 Storage/Usage of Hazardous Substances and Petroleum Products

The following hazardous substances and petroleum products were observed to be stored and used by property occupants:

Occupant	Substance	Qty/Container Type	Storage Conditions
NA	No significant storage or use noted		

5.3.2 Drums

No hazardous substance or petroleum product drums were noted on the Property.

5.3.3 Unidentified Substance Containers

No unidentified substance containers suspected of containing hazardous substance or petroleum product were noted on the Property.

5.3.4 Other Hazardous Substances/Petroleum Products

No other containers of hazardous substances or petroleum products were noted on the Property.

5.3.5 Bulk Petroleum/Hazardous Material Storage Tanks

The following storage tanks for bulk petroleum or hazardous material storage were identified or reported to be present; or are suspected to be present based on visual observations:

AST/ UST	Product	Capacity	Construction	Year Installed	Status	Location/Notes
(none)						

5.3.6 PCBs in Oil Filled Electrical/Hydraulic Equipment

The existing site improvements were established prior to the ban of PCBs in 1979. The following oil-filled electrical/hydraulic equipment was identified at the Property:

Hillmann observed two utility-owned (2) pad-mounted transformers located on the northwest corner of the Property. No signs of staining and/or leaking was observed.

5.3.7 Odors

No strong, pungent or noxious odors were noted at the Property.

5.3.8 Pools of Liquid

No standing water or pools of liquid likely to contain hazardous substances or petroleum products were noted at the Property.

5.3.9 Interior Stains or Corrosion

No interior areas were identified at the Property.

5.3.10 Interior Drains/Sumps

No interior areas were identified at the Property.

5.3.11 Exterior Pits/Ponds/Lagoons

The following exterior pits, ponds and/or lagoons were identified on the Property in connection with waste treatment or disposal.

A sewage lift station associated with the former school facility was observed at the Property. Considering it was used to handle sanitary sewage at a school, it is not considered to be a REC in connection with the Property.

5.3.12 Stained Soil, Pavement/Stressed Vegetation

No stained soil, pavement or stressed vegetation was observed at the Property.

5.3.13 On-Site Solid Waste Disposal/Fill Material

No evidence of any on-site solid waste dumping was noted at the Property. No evidence of recently deposited fill materials was observed at the Property.

The Property historically consisted of undeveloped land traversed by an intermittent steam channel. From the 1940s to the 1960s, the stream channel was dammed forming an artificial pond on portions of the Property. The pond and stream channel were drained and/or filled by the late 1960s, with the school structure developed in the early to mid-1970s. Given the former presence of a pond and stream channel, it is possible that imported undocumented fill materials were placed at the Property during this period.

5.3.14 Waste Water

No sanitary sewer discharges were identified at the Property.

Storm water runoff at the Property is discharged via a system of catch basins and on-site dry wells. No additional waste water discharges were identified at the Property.

5.3.15 Septic Systems

No septic systems were identified at the Property.

5.3.16 Wells

No potable, monitoring or other groundwater wells were identified at the Property.

5.3.17 Railroad Spurs

No railroad spurs were identified on the Property.

6.0 INTERVIEWS

6.1 Interviews with Past and Present Owners and Occupants

Subject	Name/Affiliation	Summary
Property Owner / Representative	Andrea Norman / Associate Superintendent Business Service / Oceanside Unified School District	Ms. Norman completed an environmental questionnaire, which is included in Appendix C. Pertinent information from the questionnaire, where applicable, have been referenced in various sections of this report.
Property Occupants	Not applicable	Property was unoccupied.
Past Owners, Occupants, Operators	Not applicable	Past owners/occupants of the Property were not available for interview at the time of the assessment.
Owners/Occupants of Adjoining or Nearby Properties	Not applicable	The Property was not an abandoned property with evidence of unauthorized uses or uncontrolled access; therefore, interviews with adjoining or nearby property owners or occupants were not conducted.

6.2 Interviews with State and/or Local Government Officials

Written and on-line requests for environmental records of the Property from State and Local governmental agencies are detailed in Section 4.4.

7.0 BUSINESS ENVIRONMENTAL RISKS

In accordance with the contract agreement for this assessment, Hillmann has performed cursory reviews of several potential Business Environmental Risks (also known as "Non-Scope Considerations"). The ASTM E1527-13 standard defines the term business environmental risk (BER) as, *"a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice."*

7.1 Asbestos-Containing Material (ACM)

The contracted scope of work included a cursory visual screening of the accessed portions of buildings at the Property built prior to 1990 for suspect asbestos containing materials (ACM). The information provided in this section, where applicable, is limited to identification of potential suspect materials in the readily accessible and observed areas of the building, and their general condition. This is not intended to be a comprehensive survey for the presence of ACM, and no testing has been conducted.

No buildings were present at the Property.

7.2 Lead-Based Paint

The contracted scope of work included a cursory visual screening of the condition of painted surfaces in the accessed areas of residential buildings/units built prior to 1980. This is not intended to constitute a comprehensive survey for LBP or potential lead hazards, and no testing has been conducted.

No residential buildings were present at the Property.

7.3 Radon

Data compiled by the USEPA, as summarized by the regulatory database report, indicated that the Property is located in an area classified as Zone 3 or 'low risk' area for radon. Radon testing was not included in the scope of this assessment.

7.4 Mold/Microbial Damage

As per the contracted scope of work, Hillmann conducted a cursory visual screening of the accessed areas of the building for evidence of significant damage to building materials and finishes as result of moisture intrusion and/or mold/microbial growth. Given the absence of building structures at the Property, mold/microbial growth is not considered to be a significant environmental concern.

7.5 NWI Mapped Wetlands

As indicated in the Physical Setting Source table of Section 4.1, no NWI mapped wetlands areas were depicted at the Property by the EDR Geocheck-Physical Setting Source Addendum (attached in Appendic E).

The scope of work for this assessment excludes a visual determination of regulated wetlands at the Property. It is emphasized that, regardless of the wetlands data obtained via the EDR Geocheck-Physical Setting Source Addendum, a delineation of regulated wetlands by a qualified professional would be warranted to determine the presence or absence of regulated wetlands at the Property.

7.6 Lead in Drinking Water

The scope of work for this assessment included a review of the potential for elevated levels of lead in drinking water by determining the source of the drinking water supply and a review of available compliance or testing data.

No potable water service was identified at the Property. It is noted that municipal water connection is available at the Property from the City of Oceanside. A recently published water quality report from the utility indicated compliance with USEPA water quality standards for lead in drinking water. A copy of the report has been attached in Appendix F.

8.0 REFERENCES

ASTM E1527-13-Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process; ASTM International, 2013

ASTM E12600-15-Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction, ASTM International, 2015

EDR Radius Map Report with GeoCheck™, Environmental Data Resources, 2021

EDR City Directory Abstract Report, Environmental Data Resources, 2021

EDR Sanborn Map Report, Environmental Data Resources, 2021

Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources; A. Buonicore, 2011

9.0 APPENDICES

Appendix A	Site Diagram / Vicinity Map
Appendix B	Site Photographs
Appendix C	Questionnaires / User Provided Information
Appendix D	Historical Records Documentation
Appendix E	Regulatory Records Documentation
Appendix F	Other Documents / Lab Results
Appendix G	Project Personnel Qualifications

APPENDIX A

MAPS / DIAGRAMS

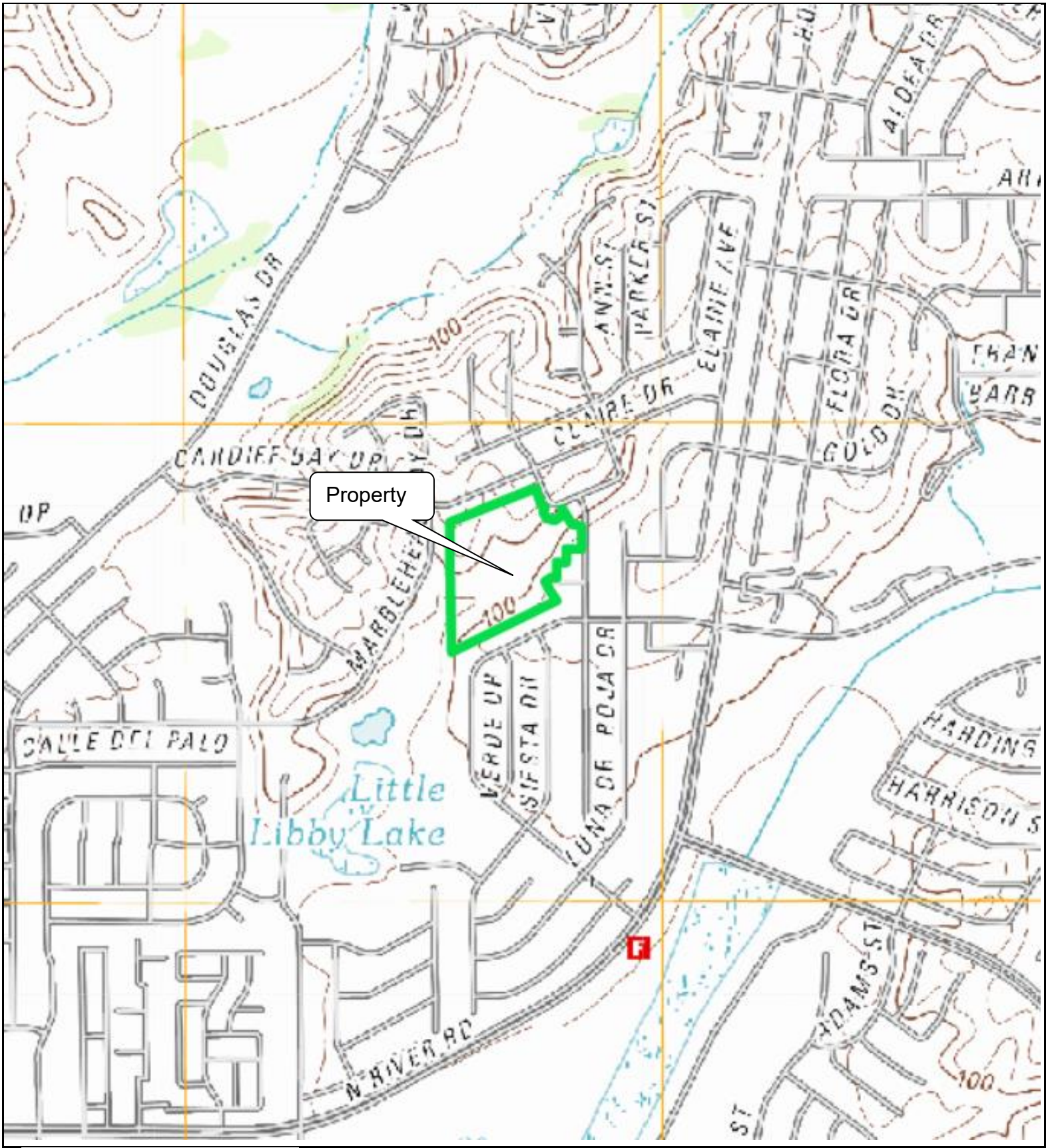

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Figure 1: Site Vicinity Map

4991 Macario Drive
Oceanside, California

N

SCALE: (NOT TO SCALE)

PROJECT No.: C3-8695

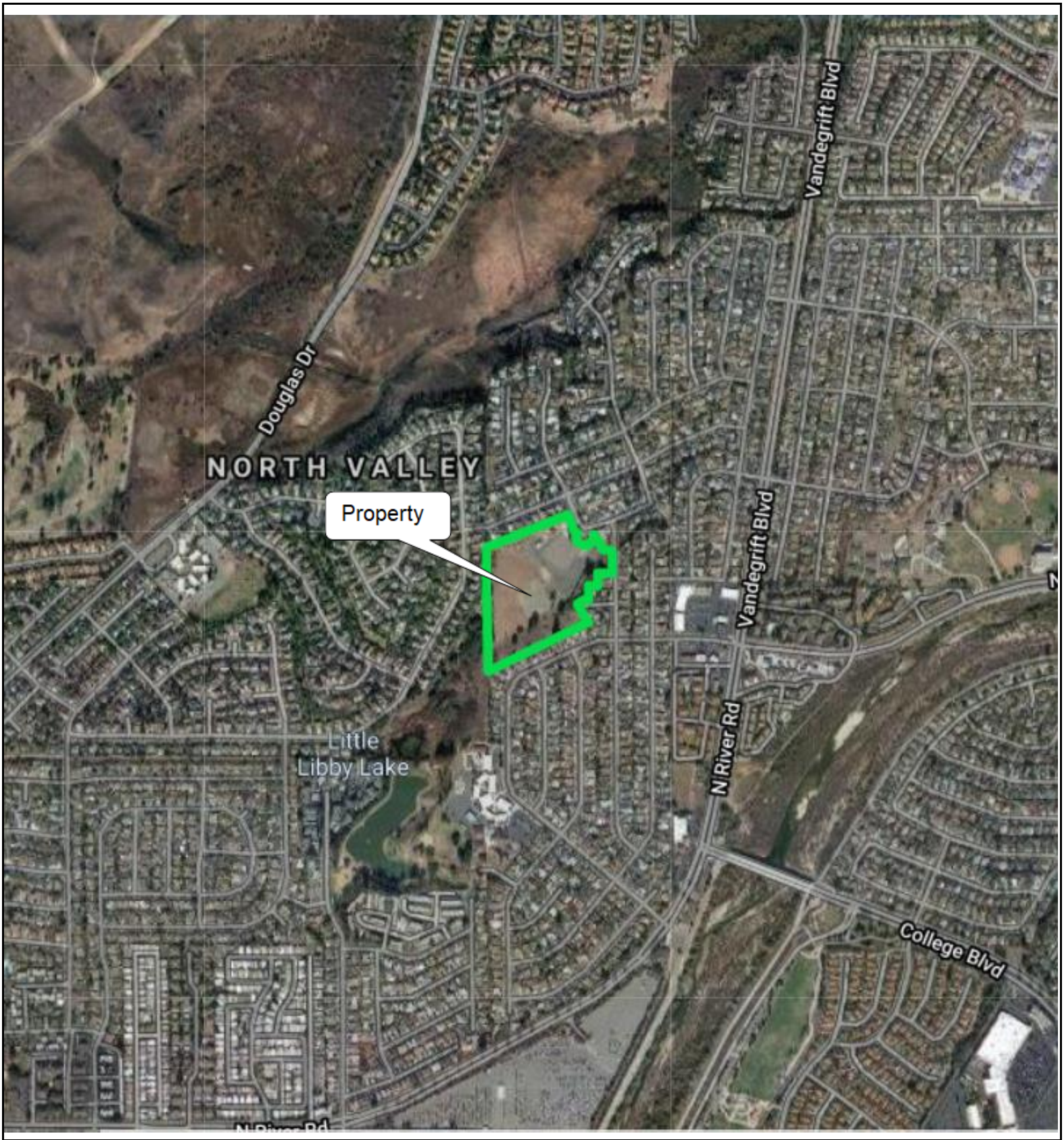

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Figure 2: Site Diagram

4991 Macario Drive
Oceanside, California

N

SCALE: (NOT TO SCALE)

PROJECT No.: C3-8695

APPENDIX B

SITE PHOTOGRAPHS

SITE PHOTOGRAPHS

View of the Property looking south

View of the east side of the Property

View of asphalt cracking to the east of the Property

View of the southern Property boundary

View of construction equipment to the north of the Property

View of electrical and fire riser to the north of the Property

PHASE I ESA - SITE PHOTOGRAPHS

4991 Macario Drive,
Oceanside, California

Project No.:	C3-8695

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SITE PHOTOGRAPHS

West side of the Property

View of dirt/sand patch on the west side of the Property

West side of the Property

View of pad mount transformer to the northwest

Old remnants of a water pipe on the western perimeter of the Property

View of the west side of the Property looking south

PHASE I ESA - SITE PHOTOGRAPHS

4991 Macario Drive,
Oceanside, California

Project No.:	C3-8695

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SITE PHOTOGRAPHS

View of adjoining residential properties to the east

View of adjoining residential properties to the west

Northeast corner of the Property

View of the Property facing southeast

View of the Property facing south

View of the Property facing east

PHASE I ESA - SITE PHOTOGRAPHS

4991 Macario Drive,
Oceanside, California

Project No.:	C3-8695

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SITE PHOTOGRAPHS

Remnants of an old pad-mounted transformer located at the northwest corner of the Property

View of two pad-mounted transformers

Minor construction equipment present along the northeast corner of the Property

View of the Property facing northwest

PHASE I ESA - SITE PHOTOGRAPHS

4991 Macario Drive,
Oceanside, California

Project No.:	C3-8695

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APPENDIX C

QUESTIONNAIRES/USER PROVIDED DOCUMENTATION

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ASTM E 1527-13/AAI - USER QUESTIONNAIRE

Instructions: This form should be completed by a representative of the USER of the Phase I ESA report and returned to Hillmann via email or in-person. **The report USER is the entity on whose behalf the assessment is being prepared and that will be relying on the report for liability protections.**

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),188 the USER must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete. Please complete the following questionnaire and provide any of the referenced information (if available) to Hillmann.

USER Company Name:	MLC Holdings, Inc.	**USER Mailing Address:**	5 Peters Canyon Road, Suite 310 Irvine, CA 92606
Respondent Name & Email Address:	Johanna Crooker johanna.crooker@mlcholdings.n	**Date of Completion:**	10/8/2021

Property Address:	4991 Macario Drive Oceanside, CA 92057	**YES**	**NO**	**DETAIL (optional):**
Environmental liens that are filed or recorded against the property: Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?		☐	☑	
Activity and use limitations that are in place on the property or that have been filed or recorded against the property: Did a search of recorded land title records (or judicial records where appropriate, identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?		☐	☑	
Specialized knowledge or experience of the person seeking to qualify for the LLP: Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?		☐	☑	
Relationship of the purchase price to the fair market value of the property if it were not contaminated: Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?		☐	☑	

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Property Address:	4991 Macario Drive Oceanside, CA 92057	YES	NO	DETAIL (optional):
Commonly Known or Reasonably Ascertainable Information: Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? **ANSWER BELOW**				
- Do you know the past uses of the property?		☑	☐	Elementary School
- Do you know of specific chemicals that are present or were once present at the property?		☐	☑	
- Do you know of spills or other chemical releases that have taken place at the property?		☐	☑	
- Do you know of any environmental cleanups that have taken place at the property?		☐	☑	
The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation: Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?		☐	☑	
Litigation/Administrative Proceedings/Government Notices As the User of this ESA, do you have knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.		☐	☑	

Additional Details, if applicable:

Includes APNs 157-070-42 and 122-190-00

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PHASE I ESA - ENVIRONMENTAL QUESTIONNAIRE

Instructions: This questionnaire should be completed by the property owner, or representative(s) designated by the owner as being most knowledgeable of the physical characteristics, site use history and environmental condition of the subject property. Please complete, sign at bottom of page 5, and return to Hillmann via email, or in person during the site inspection. ***Hillmann contact name:*** Shilpa Sunil ***Email:*** ssunil ***@hillmannconsulting.com***

Document Request/Environmental Report Disclosure: Copies of existing environmental reports and other documents pertinent to the environmental condition of the Property are requested for review. This includes, but is not necessarily limited to, the following types of documents.

- Environmental assessments (Phase I ESA, Transaction screen ESA, Preliminary Assessments, etc.)
- Subsurface or water testing: (Phase II, site investigation, subsurface testing, drinking water, groundwater monitoring, etc.)
- Site remediation documents, and any associated regulatory correspondences
- Petroleum storage tank testing/closure reports, and any associated regulatory documents.
- Building survey/inspection/testing reports for asbestos, lead, mold or radon; any associated O&M documents
- Environmental permits/registrations/certifications (bulk petroleum, waste discharge, emissions, potable wells, etc.).
- Environmental/health/fire code regulatory violations or citations

Property Details			
Street address(es) City, ST ZIP:	4991 Macario Drive, Oceanside CA 92057	Property ownership entity and primary contact person: (name/company/ph#/email):	Andrea Norman, Associate Superintendent Business Service/ Oceanside Unified School District/760-966-4000/andrea.norman@osid e.us
Tax ID: (block/lot or APN)	APN: 157-070-42-00 & 122-190-19-00	Contact's affiliation to owner: (if other than the owner)	N/A
Property size: (acres or SF)	Approx. 14.19 acres	Questionnaire completed by: (if different than above)	N/A
Total bldg. area:	N/A	No. of years at, or familiar, with the Property:	OUSD has owned the property since 1971.
Number of residential units If residential:	N/A	No. of years-current ownership:	50
Date(s) of bldg construction:	N/A	Prior owner name/contact info: (if owned <5 yrs)	N/A

Current Non-Residential Occupants & Type of Use (For facilities with ≥ 10 non-residential occupants, please provide a copy of the latest rent roll in lieu of completing the table below)			
Occupant Name:	**Type of Use:**	**NAICS #** (if known)	**Appx # yrs at Property**
To the District's knowledge the Property is not currently occupied.			

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Utilities and Services:									
Type	Yes	No	NA	Name of Provider	Type	Yes	No	NA	Name of Provider
Water:	X			City of Oceanside	Fuel Oil:			X	
Sewer:	X			City of Oceanside	HVAC Maint:			X	
Power:	X			SDGE	Elev Maint:			X	
Nat Gas:	X			SDGE	Septic Maint:			X	
Pest Control:			X	OUSD	Pool Maint:			X	

Please answer each question. Check "D/K" for "Don't Know". Additional space for comments/details is provided on Page 5.

Previous Environmental Investigations		
1.	Have any previous environmental investigations (see list on Page 1) been performed at the Property? *If YES, please briefly elaborate below and forward copies of the report(s):* Based on review of the Title report, there are no environmental investigations involving the property.	Yes: ; No: ; D/K: x
Property & Adjoining Usage		
2.	To the best of your knowledge, is the Property or any adjoining property currently occupied or formerly occupied for industrial purposes? *If YES, please elaborate below:* For the last 50 years, the property has not been occupied for industrial purposes. OUSD does not have knowledge about former occupant uses.	**Property:** Yes: ; No: x; D/K: ; **Adj. Property:** Yes: ; No: ; D/K: x
3.	Is the property or any adjoining property currently used, or have they ever been used, as a gasoline filling station, dry cleaning facility, automotive service/repair shop, auto body repair shop, commercial printing facility, photo development laboratory shop, junkyard, landfill, or as a waste treatment, storage disposal, recycling or processing facility? *If YES, please elaborate below:* For the last 50 years, the property has not been occupied for these purposes. OUSD does not have knowledge about former occupant uses.	**Property:** Yes: ; No: x; D/K: ; **Adj. Property:** Yes: ; No: ; D/K: x
4.	Have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials been dumped above grade, buried and/or burned on the property?	Yes: ; No: ; D/K: X
Bulk Storage Tanks		
5.	Are there currently, or have there been previously, any registered or unregistered above ground or underground storage tanks located at the Property? *If YES, please provide number, size, age of tanks, permits, closure reports, regulatory agency correspondence, and related information.*	**Currently:** Yes: ; No: ; D/K: x; **Previously:** Yes: ; No: ; D/K: x
6.	Are there currently, or have there been previously, any vent pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property? *If YES, please elaborate below:*	**Currently:** Yes: ; No: ; D/K: x; **Previously:** Yes: ; No: ; D/K: x
7.	Are there currently, or have there been previously, any leakage of hazardous substances or petroleum products from above ground or underground storage tank systems at the Property? *If YES, please elaborate below:*	**Currently:** Yes: ; No: ; D/K: x; **Previously:** Yes: ; No: ; D/K: x

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Spills, Releases, Wastes				
8.	Are there currently, or have there been previously, any waste discharges on or adjacent to the property, other than storm water or into a municipal sanitary sewer system? *If YES, please elaborate below:* City of Oceanside's sewage pump station failed in the late 1980's - early 1990's	**Currently:** Yes:	No:	D/K: x
		Previously: Yes: X	No:	D/K:
9.	Are there currently, or have there been previous, any septic systems, dry wells or leach fields on the property? *If YES, please elaborate below:*	**Currently:** Yes:	No:	D/K: x
		Previously: Yes:	No:	D/K: x
10.	Are there currently, or have there been previously, any flooring, drains or walls located within the facility that are, or have been, stained by substances (or, in the case of drains, used for) other than water or are emanating foul odors? *If YES, please elaborate below:*	**Currently:** Yes:	No:	D/K: x
		Previously: Yes:	No:	D/K: x
11.	Are there currently, or have there been previously, any spills or releases of hazardous substances or petroleum products within the building(s) or on the exterior of the Property? *If YES, please elaborate below:* see #8	**Currently:** Yes:	No:	D/K: x
		Previously: Yes: X	No:	D/K:
12.	Has any non-native and/or contaminated fill material been deposited on the Property? *If YES, please elaborate below:*	Yes:	No:	D/K: x
13.	Have any current or former property occupants generated hazardous wastes or other wastes (such as waste oil, or medical wastes) that required non-conventional storage, handling and/or disposal methods? *If YES, please indicate type of waste and the name of the waste handling contractor:*	Yes:	No:	D/K: x
Transformers/Hydraulic Equipment				
14.	Are any power transformers, capacitors, oil-filled switchgear or hydraulic equipment present at the Property? *If YES, please elaborate below; and indicate approximate age and ownership:* SDGE transformers at the entrance of property	Yes: X	No:	D/K:
15.	If hydraulic equipment is present, indicate approximate age of equipment & ownership:			
Regulatory Disclosure				
16.	Have there been any environmental liens or governmental notification or involvement relating to past or current use or disposal of hazardous substances with respect to the property of any facility or structure located on the property? *If YES, please elaborate below:* Based on review of the Title report, there are no environmental liens or governmental notifications regarding disposal of hazardous waste involving the property.	Yes:	No: X	D/K:
17.	If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system, or has the well been designated as contaminated by any government environmental/health agency? *(If YES, please elaborate below. If not applicable, please check* NO*)*	Yes:	No: X	D/K:

18.	Is there any environmental litigation, administrative action or cleanup action involving the property related to a release or threatened release of any hazardous substance or petroleum product? *If YES, please elaborate below:* Based on review of the Title report, there is no environmental litigation, administrative action, or cleanup action involving the property.		X	
		Yes	No	D/K
19.	Are you aware of testing of any environmental media (soil, groundwater, surface water, etc.) at the property which identified levels of contaminants in excess of regulatory standards and/or cleanup guidelines? *If YES, please elaborate below:*			X
		Yes	No	D/K
	Additional Environmental/Building Conditions			
20.a.	Has testing of building materials for asbestos ever been conducted at the Property? *If YES, please forward a copy of test results and/or survey reports:*	X		
		Yes	No	D/K
20.b.	Are any asbestos containing materials known to be present at the Property? *If YES, please elaborate:* All buildings and structures were demolished and removed		X	
		Yes	No	D/K
20.c.	Is there an Asbestos Operations & Maintenance (O&M) program in place? *If YES, please forward a copy.*		X	
		Yes	No	D/K
21.a.	Has lead paint testing/risk assessment ever been conducted at the Property? *If YES, please forward a copy of test results.*	X		
		Yes	No	D/K
21.b.	Is lead-based paint known to be present at the Property? *If YES, please elaborate:*		X	
		Yes	No	D/K
21.c.	Is there a lead paint Operations & Maintenance (O&M) (or equivalent) program in place? *If YES, please forward a copy.*		X	
		Yes	No	D/K
21.d.	For any residential buildings built prior to 1987, has any testing for lead in drinking water been performed? *If YES, please provide a copy of all test results.*			x
		Yes	No	D/K
21.e.	If Yes to 23.d., has any lead testing of drinking water indicated results exceeding 15 parts per billion (or microgram per liter)? *If YES, please elaborate and forward documentation of any mitigation performed to reduce lead concentration in drinking water.*			x
		Yes	No	D/K
22.a.	Has radon testing ever been conducted at the Property? *If YES, please forward a copy of test results.*			x
		Yes	No	D/K
22.b.	Are there any radon mitigations systems at the Property? *If YES, please provide details of the systems including the most recent service records.*			x
		Yes	No	D/K
23.a.	Are there any problems with water intrusion, water damaged surfaces or excessive mold growth within the buildings? *If YES, please elaborate:*		X	
		Yes	No	D/K
23.b.	Is there a Moisture Control (or Mold Management) Program in place *If YES, please forward a copy.*		X	
		Yes	No	D/K
24.a.	Are any pest control, pesticides or herbicides products utilized or applied at the Property? *If YES, please elaborate.* In the last 5 years, there have been some herbicides sprayed on the property for weeds. These were mostly Glyphosate products.	X		
		Yes	No	D/K
24.b.	If Yes to 24.a., are all products applied by licensed pest control contractor? *If YES, provide company name and any applicable license #s if available. If NO, please describe what products are utilized, who applies them and/or how they are applied or utilized.* Applied by OUSD Staff - Lead Groundskeeper QAC #95838	X		
		Yes	No	D/K

HILLMANN
CONSULTING

Additional Details/Comments:
For any questions that warrant further elaboration, please use the following space as necessary, and/or provide documentation along with the completed questionnaire: All buildings and structures at the site have been demolished and are no longer present.

Certification	
I, Andrea Norman, state to the best of my knowledge, information and belief, that all of the facts stated in response to the questions and requests for information contained in this Environmental Questionnaire are true.	
Signature: A. Norman	Date: 10-21-2021
Title: Associate Superintendent Business Services	
On behalf of: Oceanside Unified School District (name of entity)	

APPENDIX D

HISTORICAL RECORDS DOCUMENTATION

4991 Macario Dr

4991 Macario Dr

Oceanside, CA 92057

Inquiry Number: 6693842.8

October 07, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/07/21

Site Name:

4991 Macario Dr
4991 Macario Dr
Oceanside, CA 92057
EDR Inquiry # 6693842.8

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Gabby Cyrulik

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1997	1"=500'	Acquisition Date: October 16, 1997	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: February 24, 1985	USDA
1970	1"=500'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1967	1"=500'	Flight Date: May 07, 1967	USGS
1964	1"=500'	Flight Date: April 10, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: August 09, 1938	USDA

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INQUIRY #: 6693842.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6693842.8

YEAR: 2012

= 500'

N

EDR

INQUIRY #: 6693842.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6693842.8
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 6693842.8

YEAR: 1997

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 6693842.8
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 6693842.8

YEAR: 1990

= 500'

N

EDR

INQUIRY #: 6693842.8
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 6693842.8

YEAR: 1985

= 500'

N

EDR

INQUIRY #: 6693842.8

YEAR: 1970

= 500'

N

EDR

INQUIRY #: 6693842.8
YEAR: 1967
= 500'
N
EDR

INQUIRY #: 6693842.8

YEAR: 1964

= 500'

N

EDR

INQUIRY #: 6693842.8
YEAR: 1953
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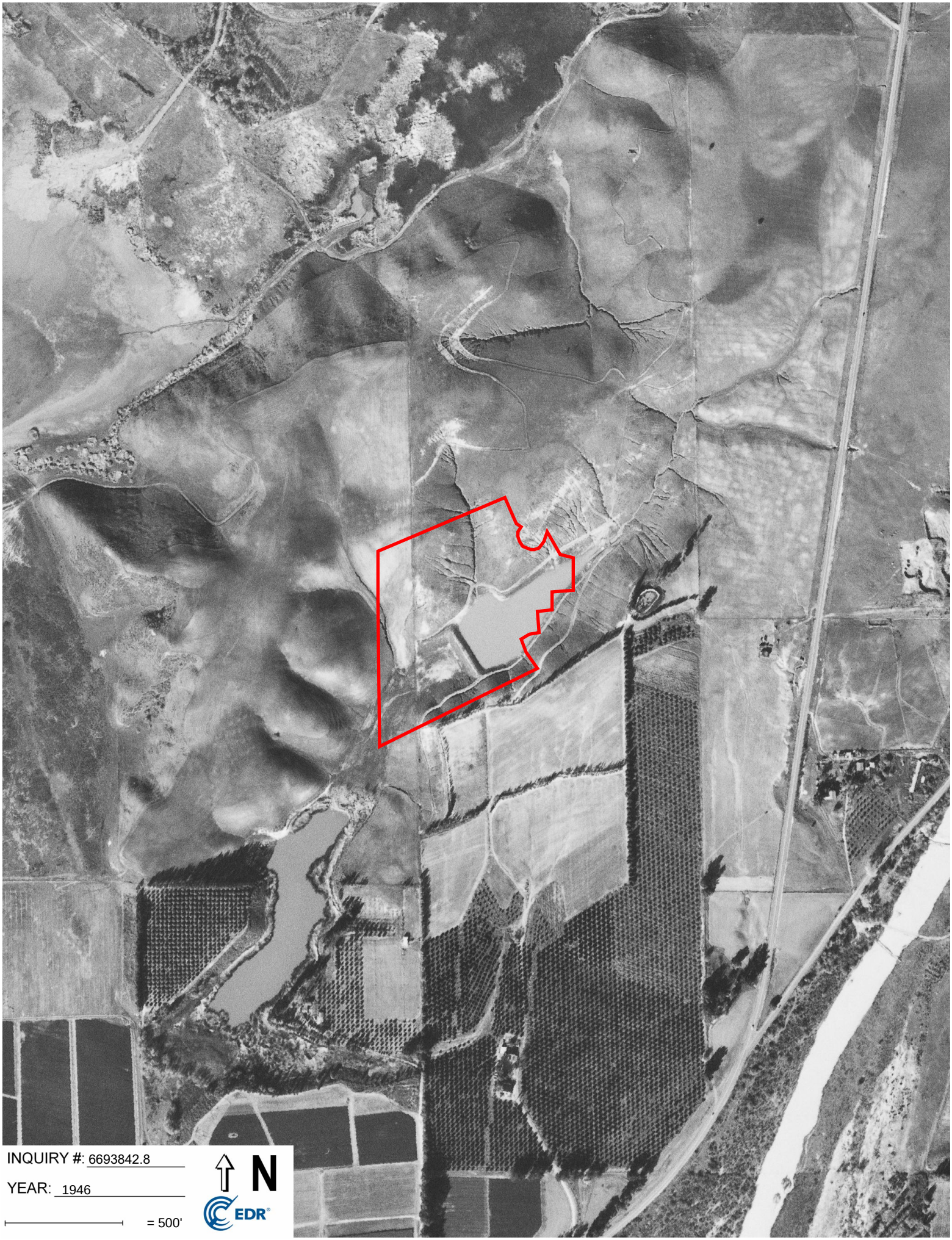
N
EDR



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YEAR: 1946

= 500'

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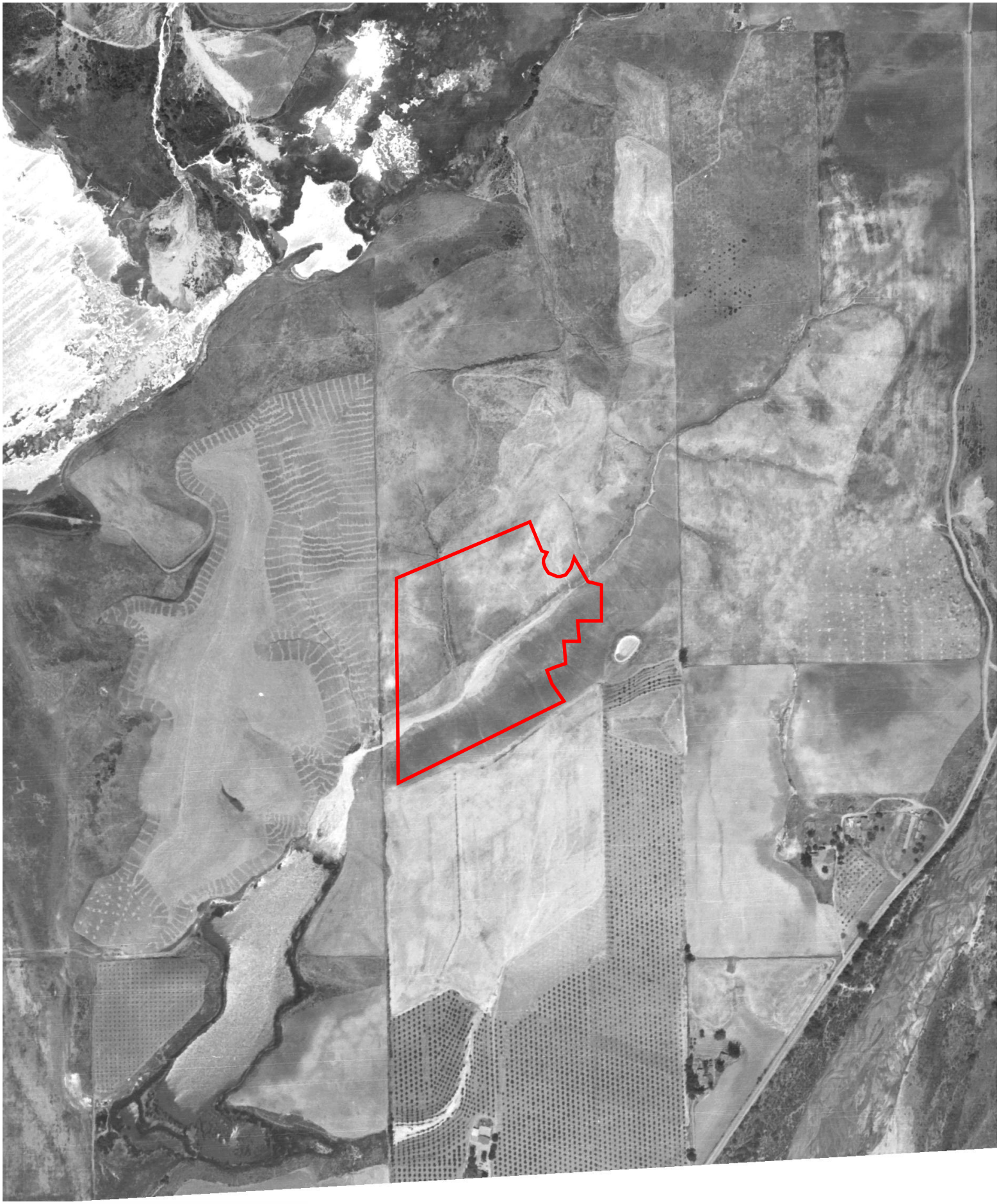
EDR



INQUIRY #: 6693842.8

YEAR: 1938

= 500'

N

EDR

[redacted]

4991 Macario Dr

4991 Macario Dr

Oceanside, CA 92057

Inquiry Number: 6693842.4

October 07, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/07/21

Site Name:

4991 Macario Dr
4991 Macario Dr
Oceanside, CA 92057
EDR Inquiry # 6693842.4

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Gabby Cyrulik

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Hillmann Environmental Co. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 4991 Macario Dr
Project: C3-8695

Coordinates:

Latitude:	33.255975 33° 15' 22" North
Longitude:	-117.304033 -117° 18' 15" West
UTM Zone:	Zone 11 North
UTM X Meters:	471680.75
UTM Y Meters:	3679706.14
Elevation:	90.41' above sea level

Maps Provided:

2012
1997
1975
1968
1954
1949
1948
1947, 1950
1944
1942
1941
1901
1898
1893

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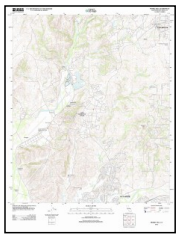
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Morro Hill
2012
7.5-minute, 24000

San Luis Rey
2012
7.5-minute, 24000

1997 Source Sheets

San Luis Rey
1997
7.5-minute, 24000
Aerial Photo Revised 1997

1975 Source Sheets

San Luis Rey
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1968 Source Sheets

Morro Hill
1968
7.5-minute, 24000
Aerial Photo Revised 1967

San Luis Rey
1968
7.5-minute, 24000
Aerial Photo Revised 1967

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1954 Source Sheets

Margarita Peak
1954
15-minute, 62500
Aerial Photo Revised 1939

1949 Source Sheets

San Luis Rey
1949
7.5-minute, 24000
Aerial Photo Revised 1946

Morro Hill
1949
7.5-minute, 24000
Aerial Photo Revised 1946

1948 Source Sheets

San Luis Rey
1948
7.5-minute, 24000
Aerial Photo Revised 1946

Morro Hill
1948
7.5-minute, 24000
Aerial Photo Revised 1946

1947, 1950 Source Sheets

OCEANSIDE
1947
15-minute, 50000

MARGARITA PEAK
1950
15-minute, 50000

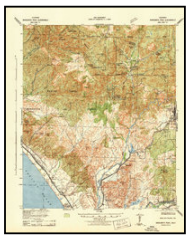
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets

Morro Hill
1944
7.5-minute, 31680

1942 Source Sheets



Margarita Peak
1942
15-minute, 62500
Aerial Photo Revised 1939

1941 Source Sheets

Margarita Peak
1941
15-minute, 62500
Aerial Photo Revised 1939

1901 Source Sheets

Oceanside
1901
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898 Source Sheets

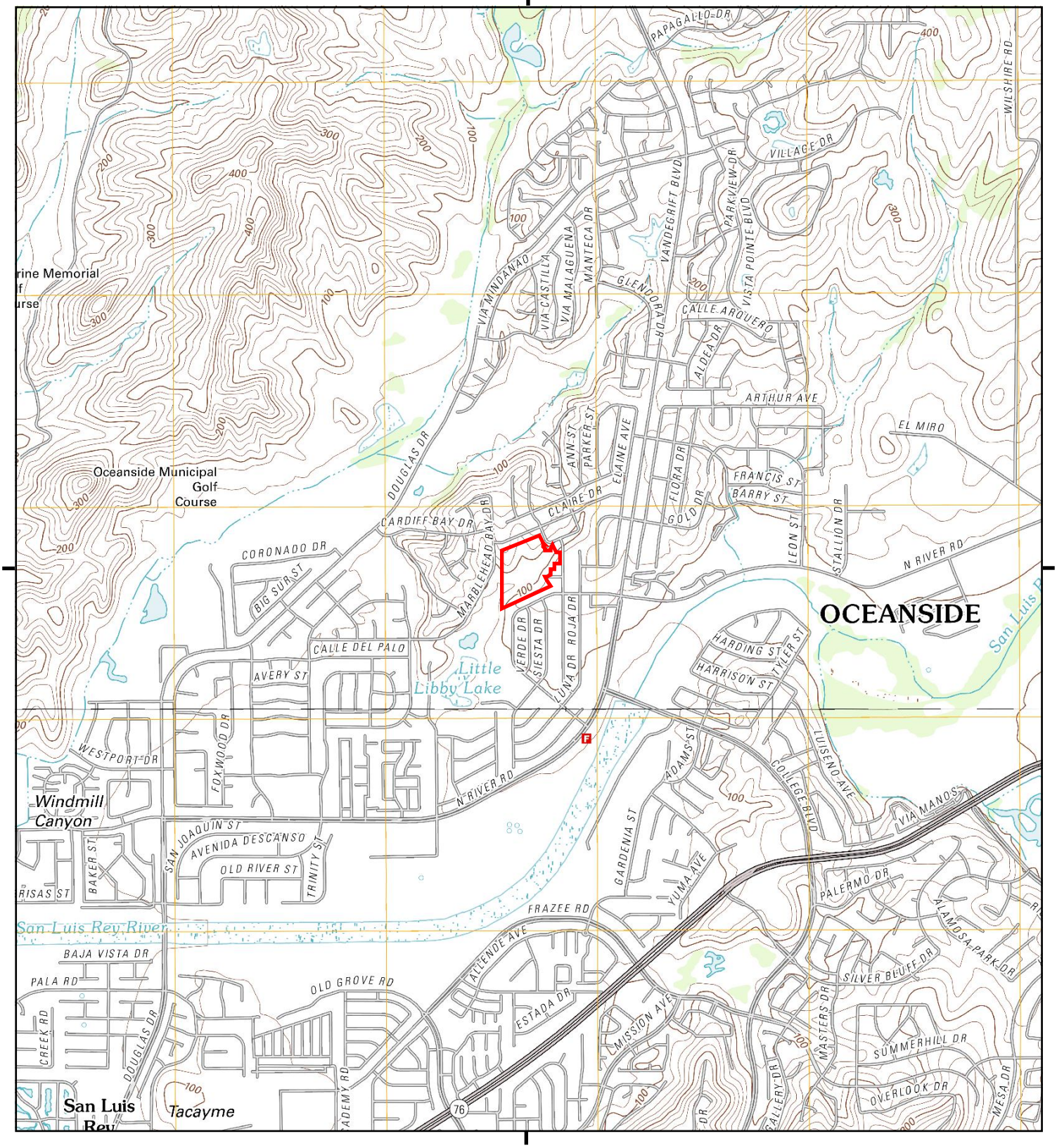
Oceanside
1898
15-minute, 62500

1893 Source Sheets

Oceanside
1893
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

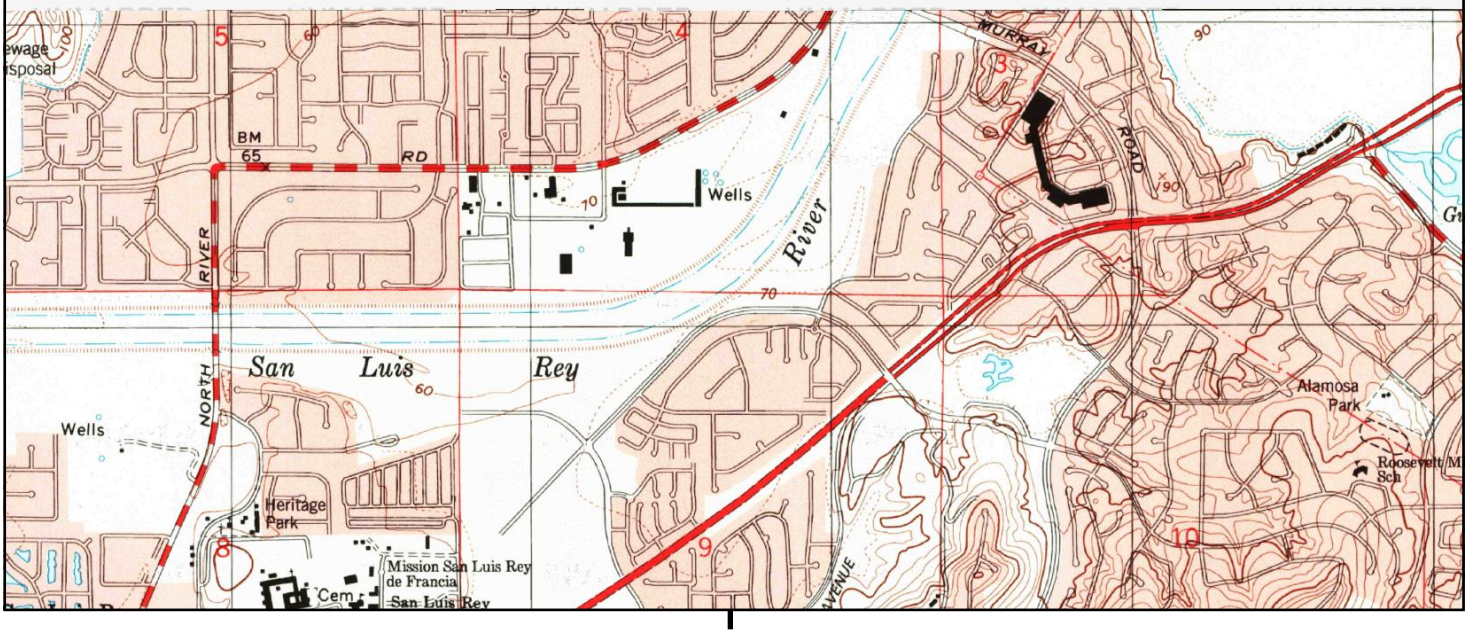
NW N NE
W E
SW S SE

TP, Morro Hill, 2012, 7.5-minute
S, San Luis Rey, 2012, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

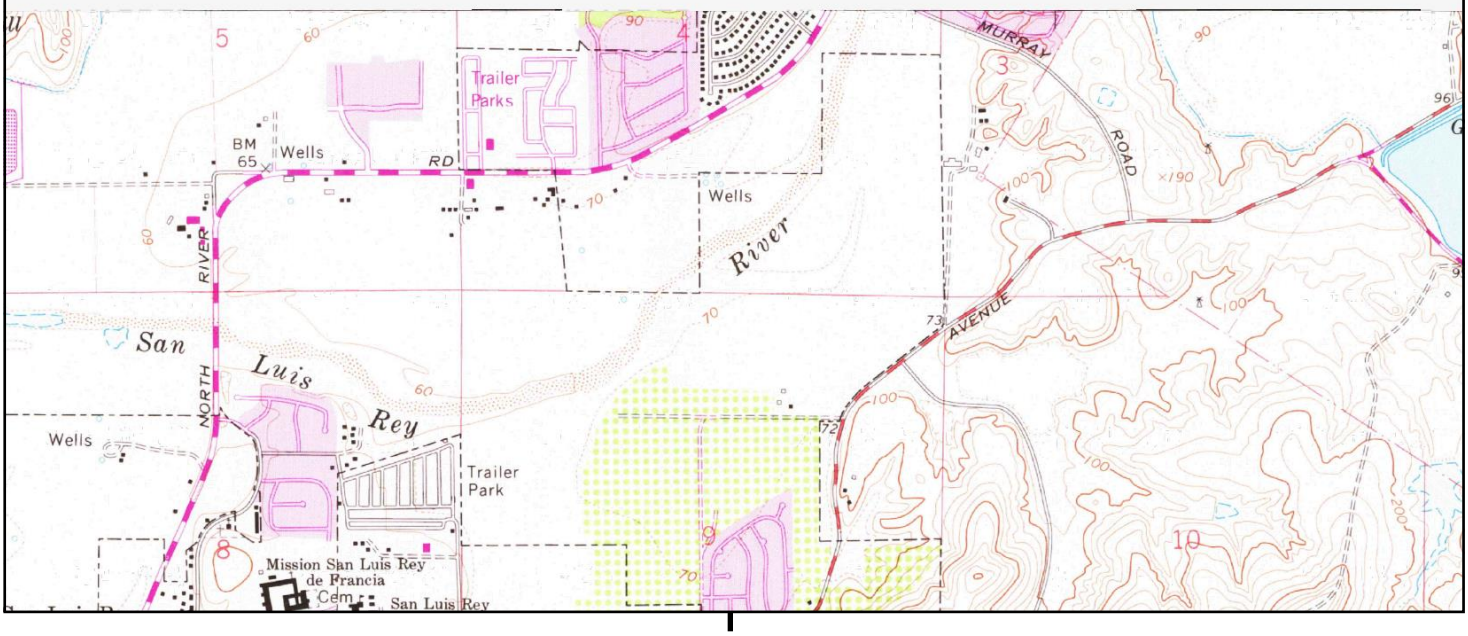
NW N NE
W E
SW S SE

S, San Luis Rey, 1997, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

UNMAPPED



This report includes information from the following map sheet(s).

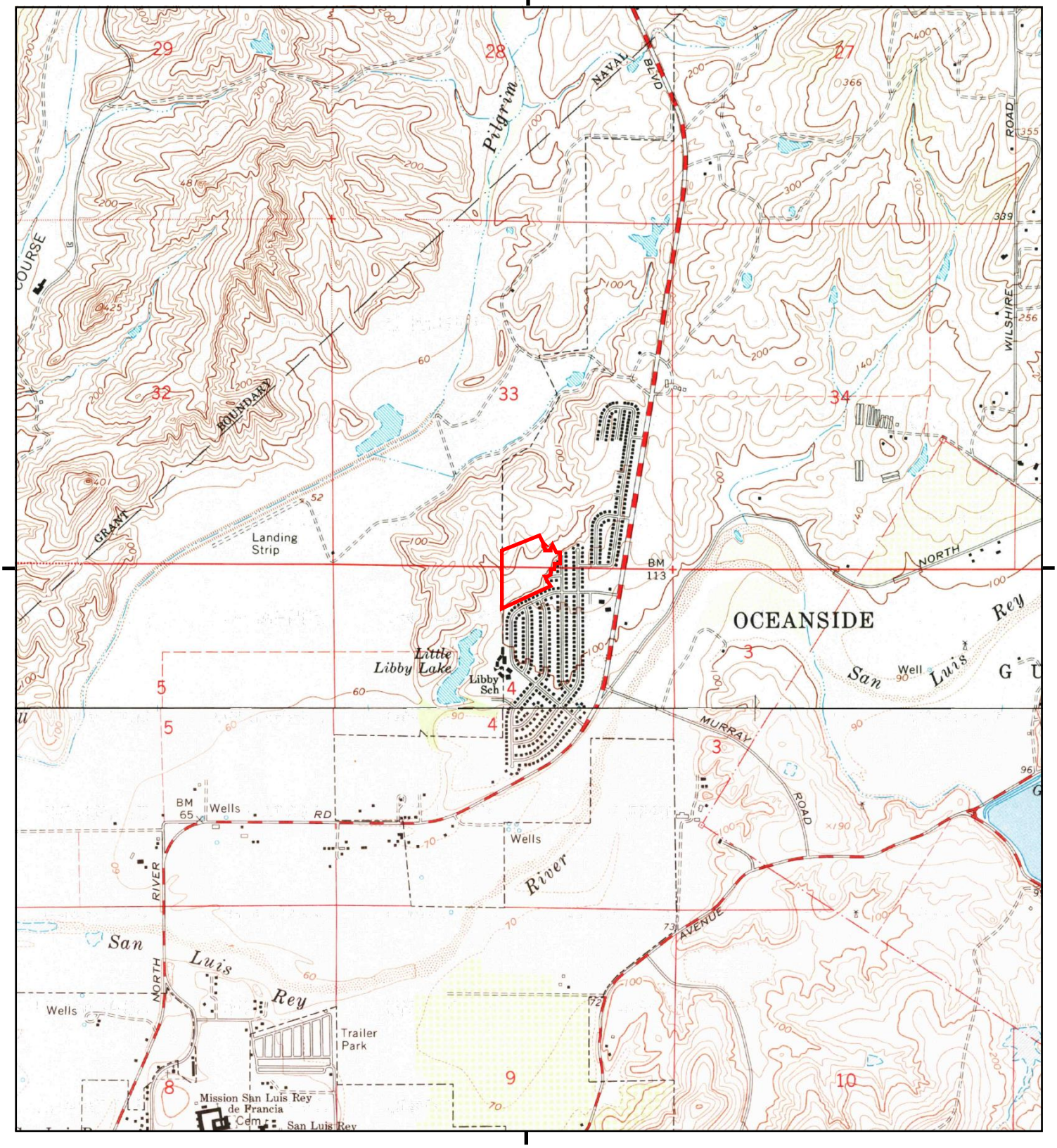
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

S, San Luis Rey, 1975, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

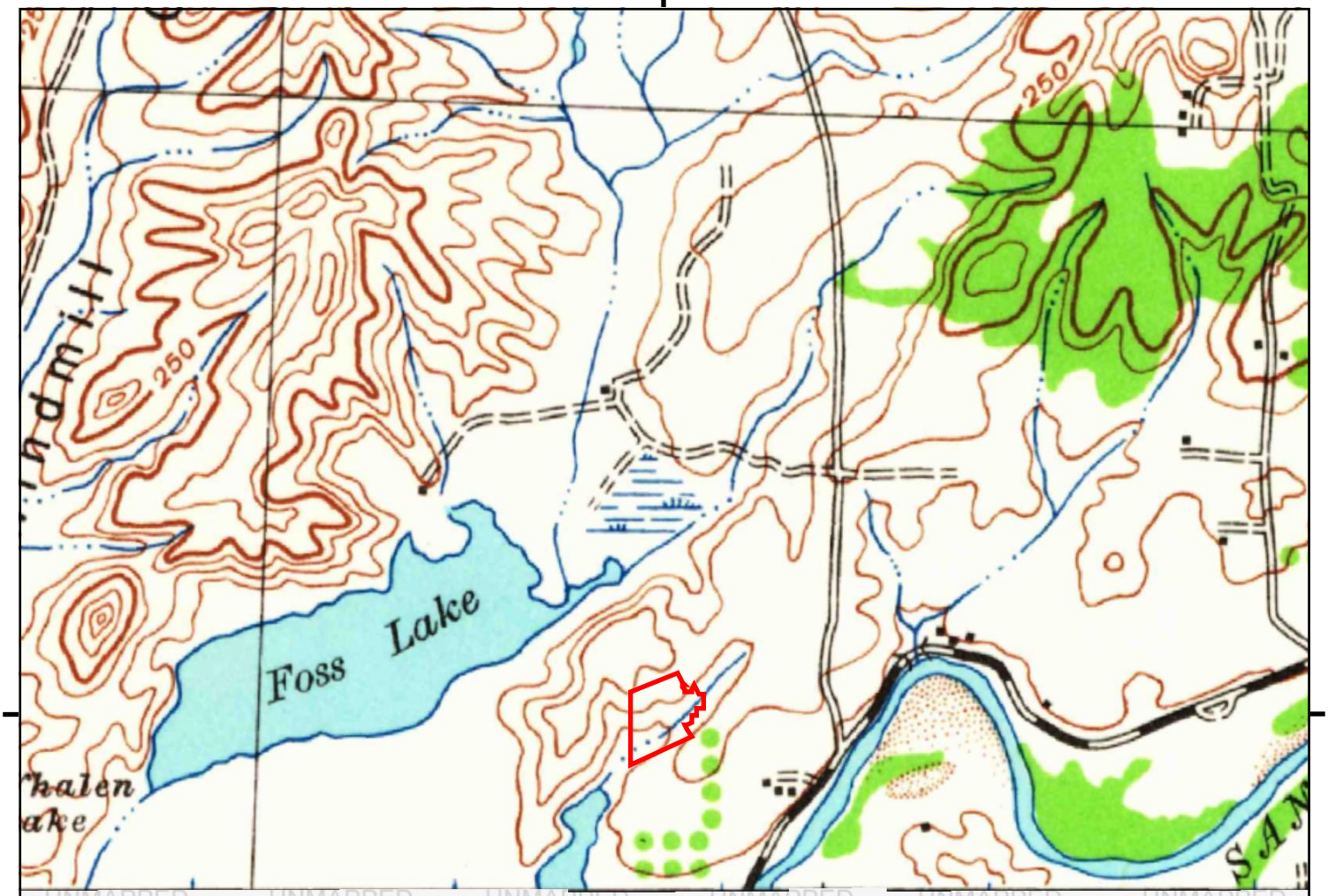
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Morro Hill, 1968, 7.5-minute
S, San Luis Rey, 1968, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

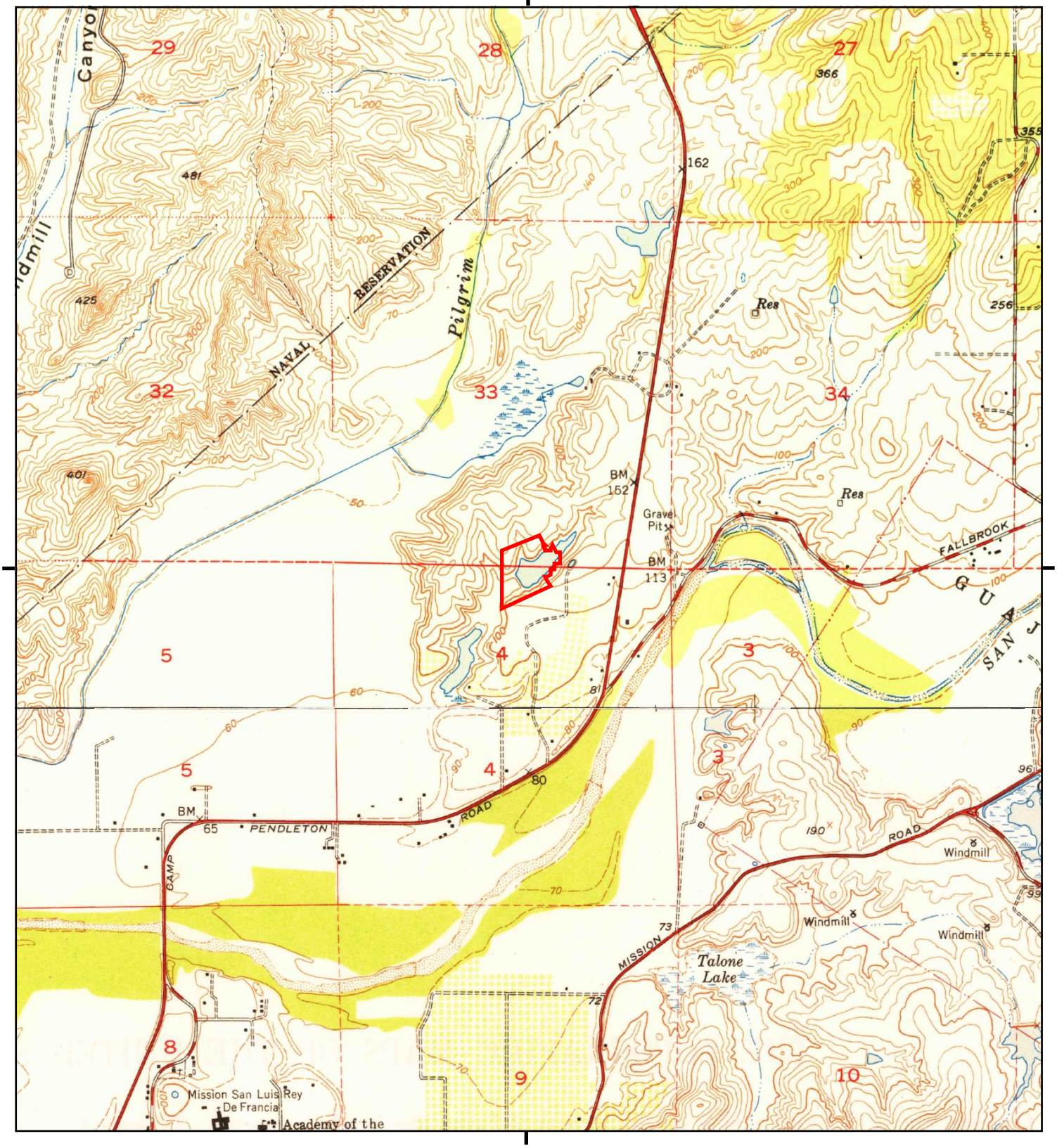
TP, Margarita Peak, 1954, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1949



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

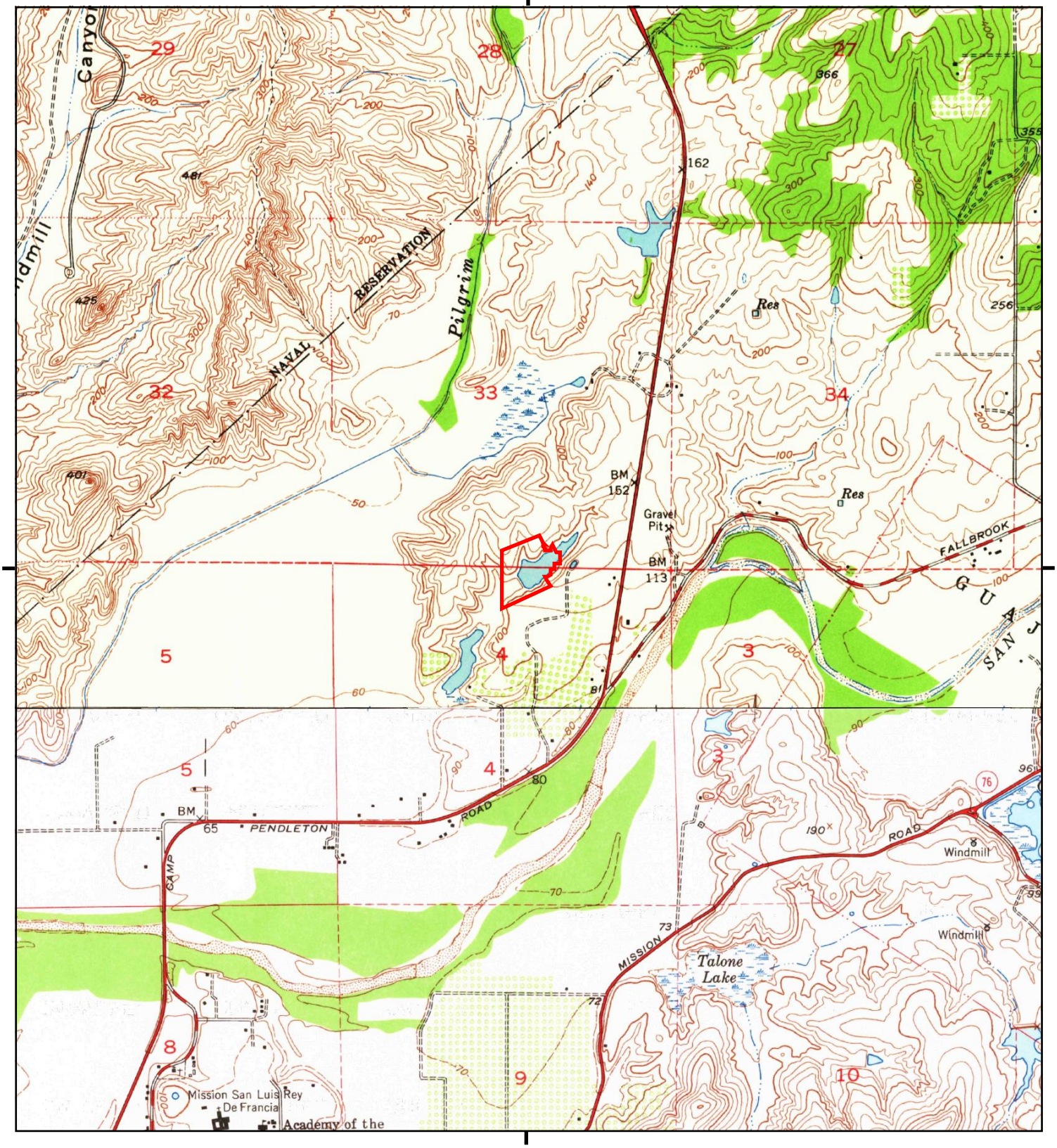
TP, Morro Hill, 1949, 7.5-minute
S, San Luis Rey, 1949, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1948



This report includes information from the following map sheet(s).

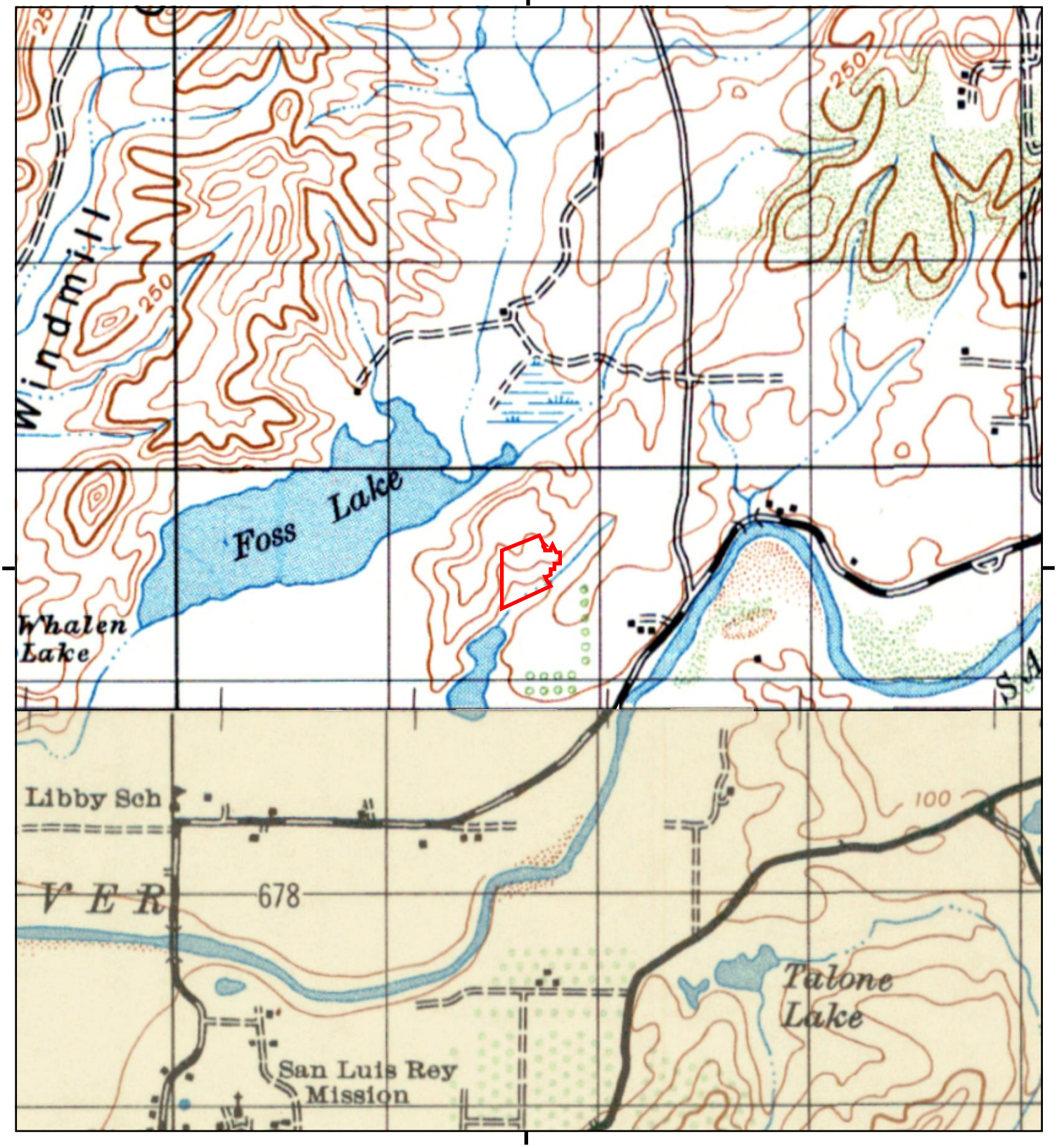
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Morro Hill, 1948, 7.5-minute
S, San Luis Rey, 1948, 7.5-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

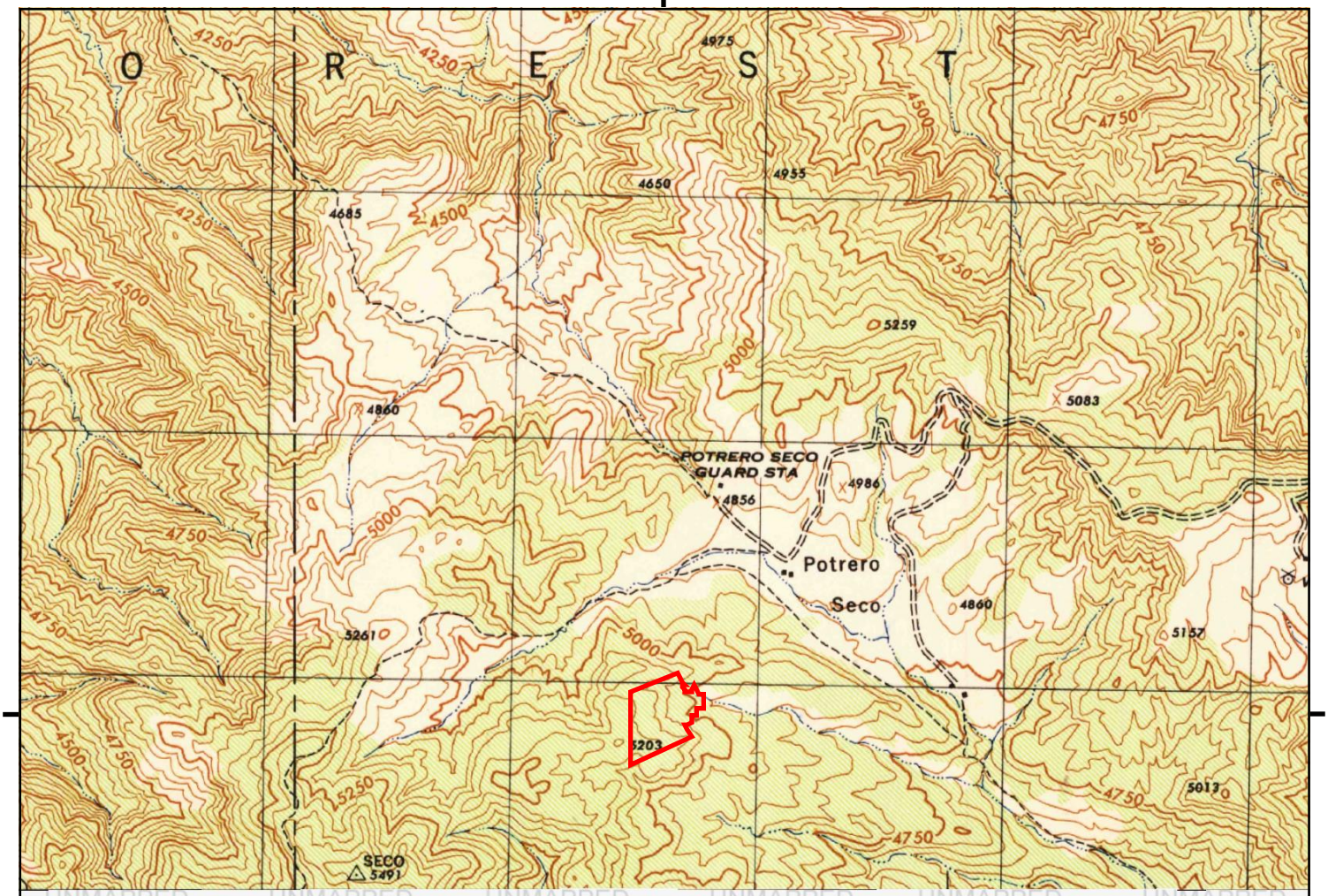
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, MARGARITA PEAK, 1950, 15-minute
SW, OCEANSIDE, 1947, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Morro Hill, 1944, 7.5-minute

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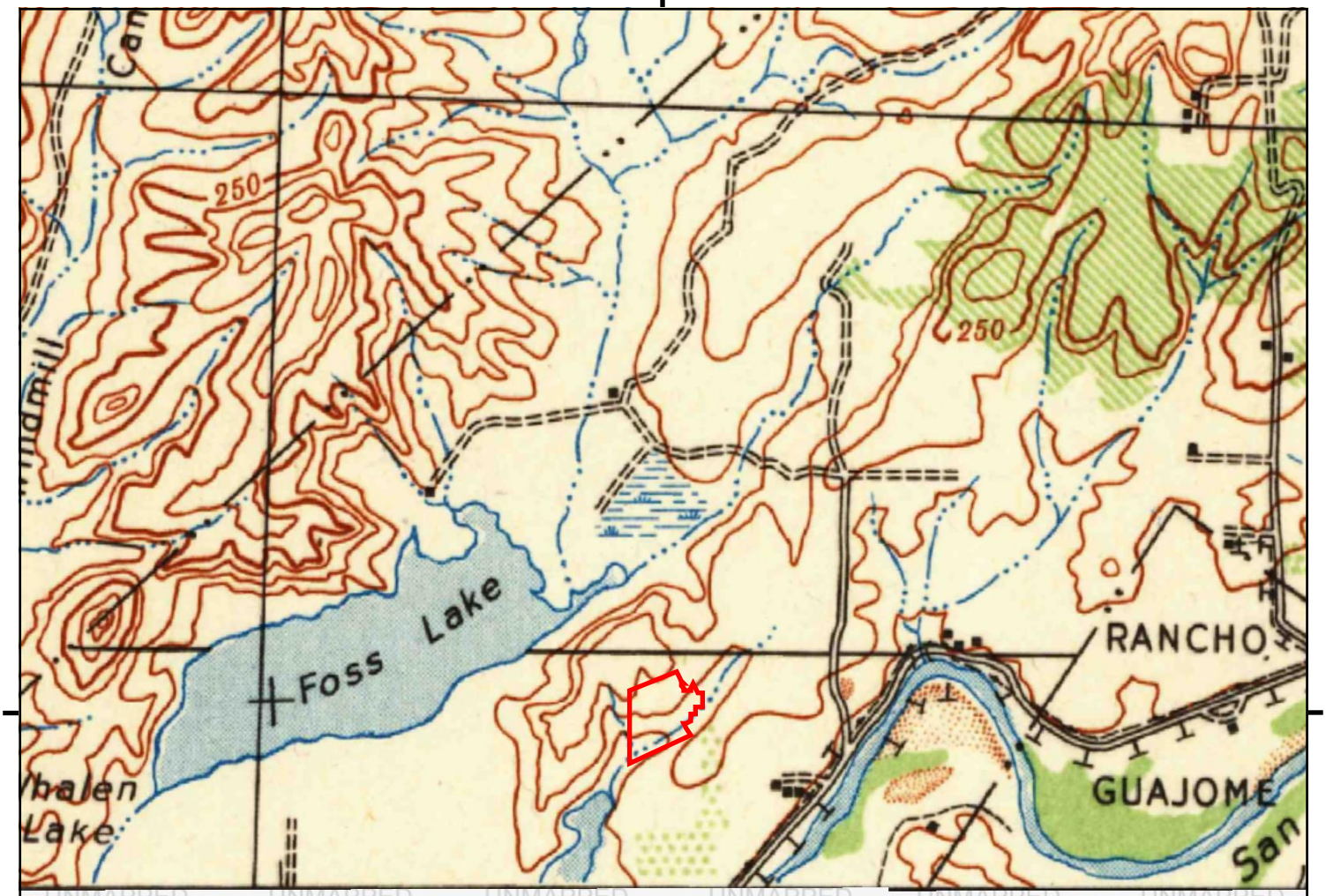
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



UNMAPPED

This report includes information from the following map sheet(s).

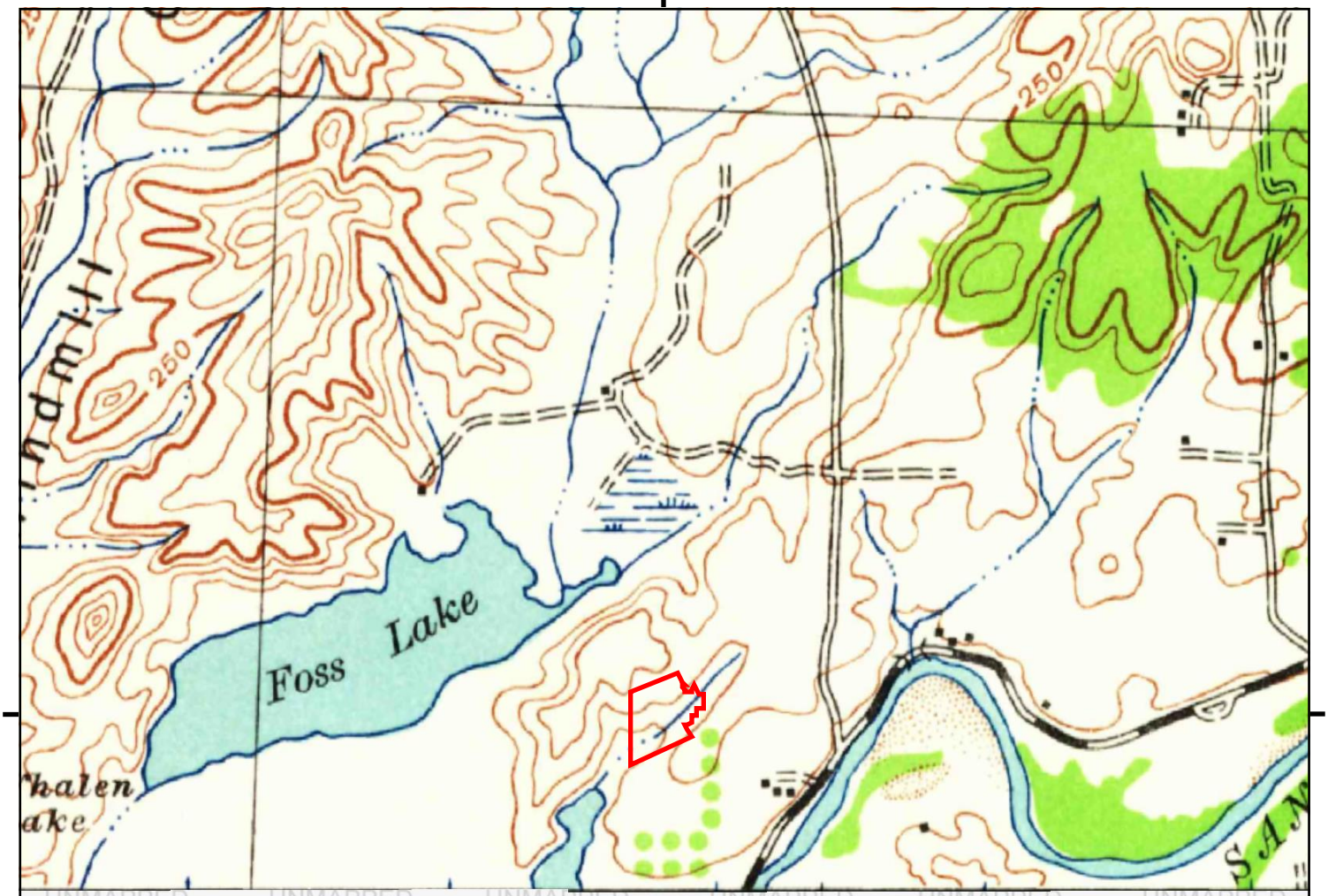
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Margarita Peak, 1942, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

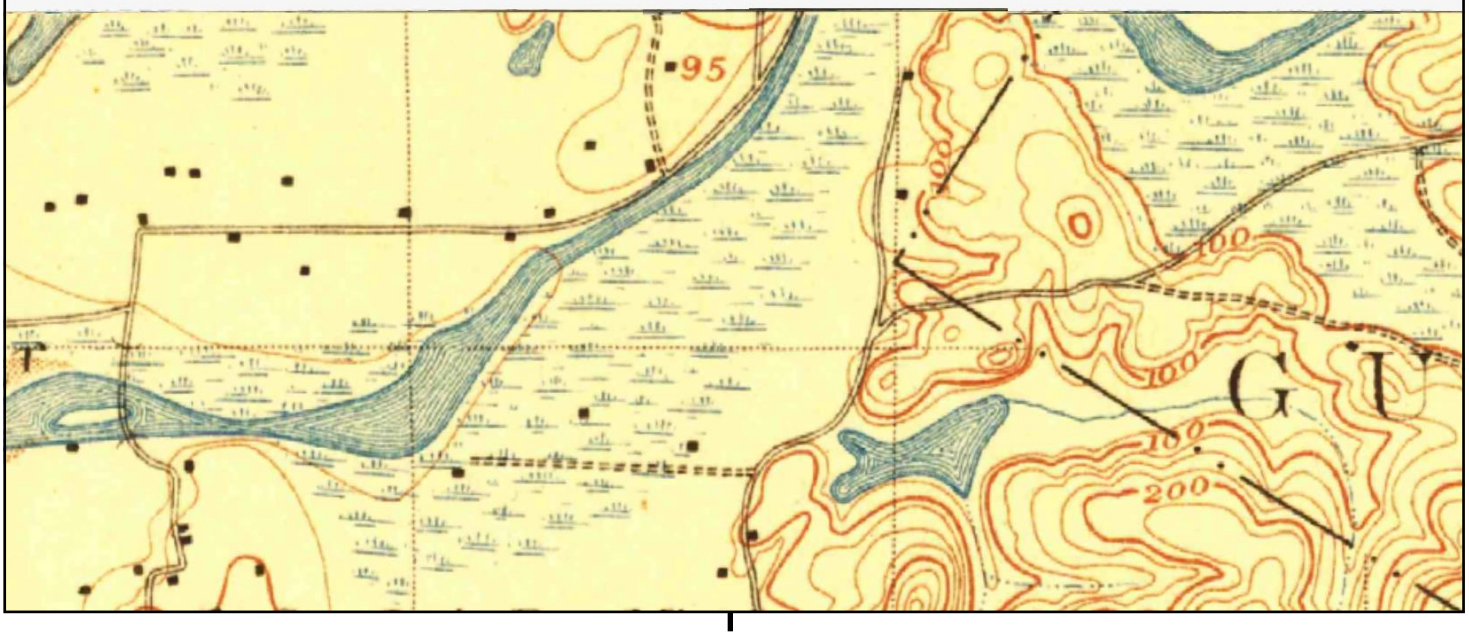
NW N NE
W E
SW S SE

TP, Margarita Peak, 1941, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

UNMAPPED



This report includes information from the following map sheet(s).

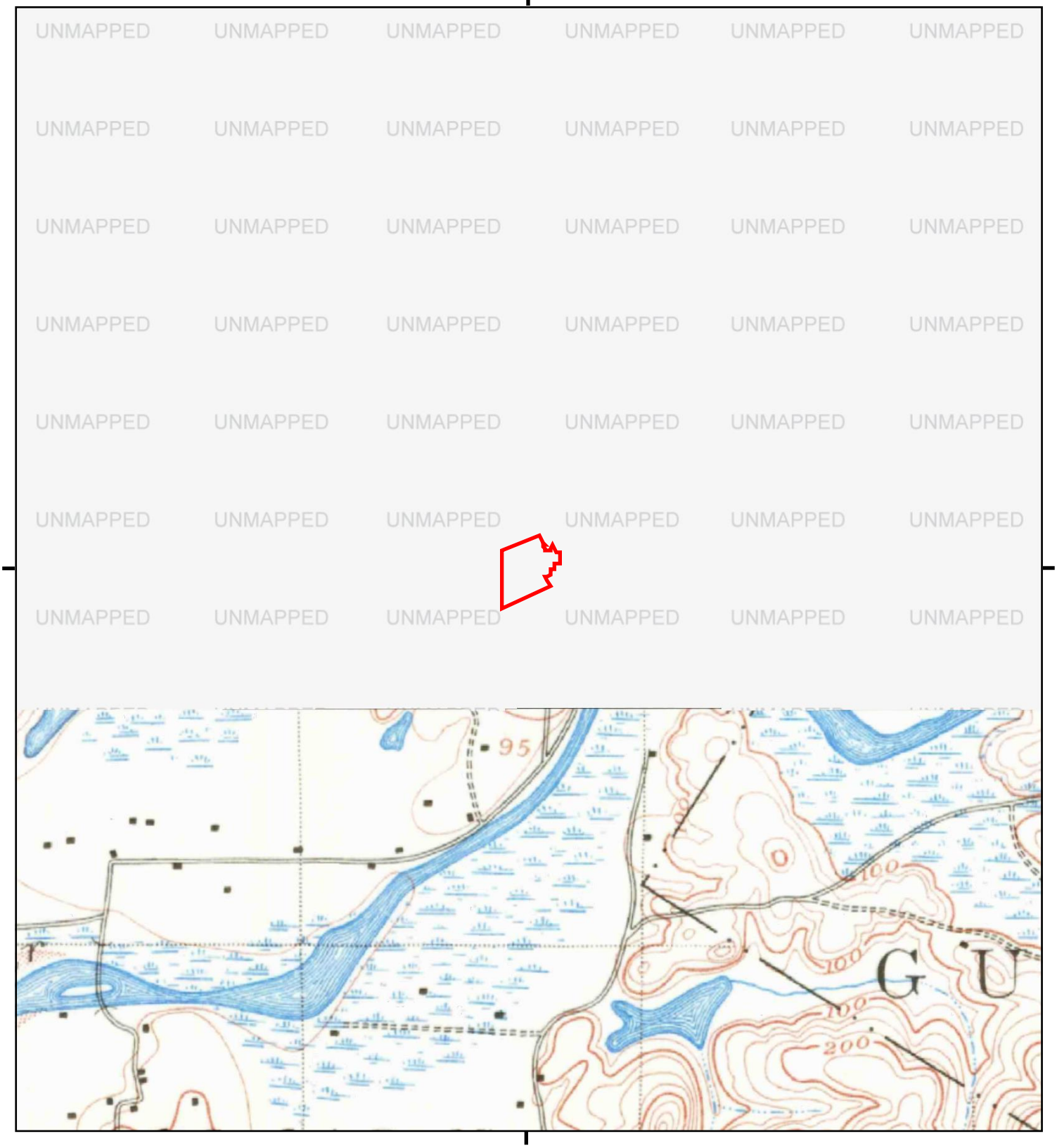
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

SW, Oceanside, 1901, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

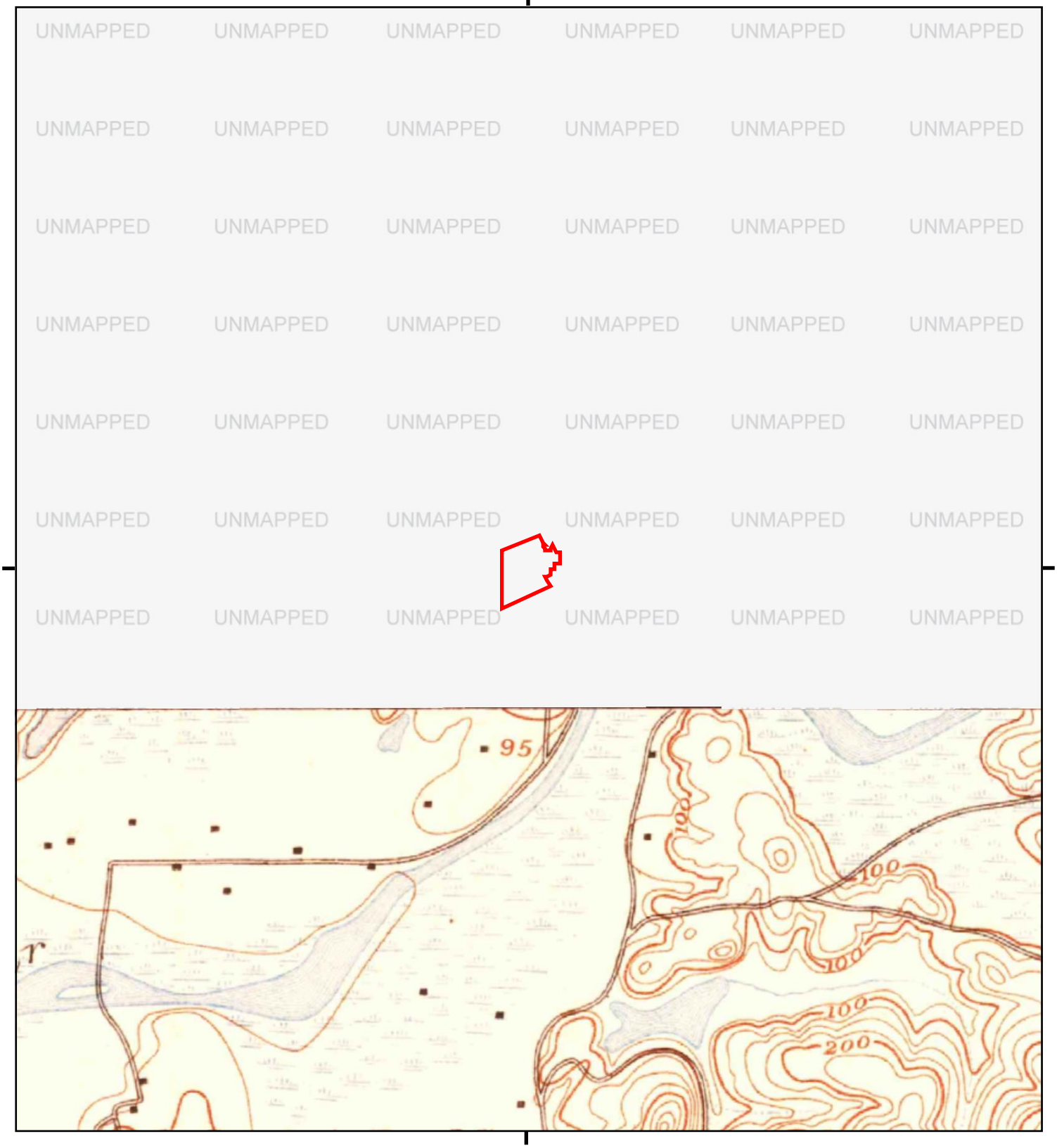
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

SW, Oceanside, 1898, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

SW, Oceanside, 1893, 15-minute

SITE NAME: 4991 Macario Dr
ADDRESS: 4991 Macario Dr
Oceanside, CA 92057
CLIENT: Hillmann Environmental Co.

N

4991 Macario Dr

4991 Macario Dr

Oceanside, CA 92057

Inquiry Number: 6693842.3

October 07, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/07/21

Site Name:

4991 Macario Dr
4991 Macario Dr
Oceanside, CA 92057
EDR Inquiry # 6693842.3

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Gabby Cyrulik

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # CE7C-45A6-A768

PO # 4991 Macario Dr

Project C3-8695

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: CE7C-45A6-A768

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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4991 Macario Dr
4991 Macario Dr
Oceanside, CA 92057

Inquiry Number: 6693842.5
October 08, 2021

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1903 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	-	X	X	X
	Haines Company, Inc.	X	X	X	X
2004	Cole Information Services	X	X	X	-
2000	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
1999	Cole Information Services	X	X	X	-
1995	PACIFIC BELL WHITE PAGES	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1995	PACIFIC BELL WHITE PAGES	X	X	X	-
1994	Cole Information Services	X	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
	PACIFIC BELL WHITE PAGES	X	X	X	-
1989	Pacific Bell	-	-	-	-
1985	PACIFIC BELL WHITE PAGES	-	X	X	-
	PACIFIC BELL WHITE PAGES	X	X	X	-
1984	R. L. Polk & Co.	-	-	-	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1976	Luskey Brothers & Co., Inc.	-	X	X	-
	Luskey Brothers & Co., Inc.	X	X	X	-
1975	R. L. Polk Co.	-	-	-	-
1971	Community Directory Co.	-	-	-	-
1970	John M. Ducy	-	X	X	-
1966	R. L. Polk Co.	-	-	-	-
1965	Luskey Brothers Co., Inc.	-	-	-	-
1962	Community Directory Co.	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	The Pacific Telephone Telegraph Co.	-	-	-	-
1956	R. L. Polk & Co.	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1952	R. L. Polk & Co. of California	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1948	San Diego Directory Co.	-	-	-	-
1945	San Diego Directory Co.	-	-	-	-
1943	San Diego Directory Co.	-	-	-	-
1940	San Diego Directory Co.	-	-	-	-
1938	San Diego Directory Co.	-	-	-	-
1933	San Diego Directory Co.	-	-	-	-
1927	San Diego Directory Co.	-	-	-	-
1921	San Diego Directory Co. Inc.	-	-	-	-
1907	San Diego Directory Co.	-	-	-	-
1903	San Diego Directory Co.	-	-	-	-

RECORD SOURCES

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Data by

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FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

4991 Macario Dr
Oceanside, CA 92057

FINDINGS DETAIL

Target Property research detail.

MACARIO DR

4991 MACARIO DR

Year	*Uses*	*Source*	
2009	OCEANSIDE UNIFIED SCHOOL DST	Cole Information Services	
	PACIFIC ELEMENTARY SCHOOL	Cole Information Services	
2006	OCEANSD SC PACIFICA	Haines Company, Inc.	Image pg. A1
	PACIFICA ELEMENTARY SCHOOL	Haines Company, Inc.	Image pg. A1
2004	OCCUPANT UNKNOWN	Cole Information Services	
	PACIFICA ELEMENTARY SCHOOL	Cole Information Services	
2000	OCEANSD SC PACIFICA	Haines Company, Inc.	
	PACIFICA ELEMENTARY SCHOOL	Haines Company, Inc.	
	PACIFICA MIGRANT HEADSTART	Haines Company, Inc.	
1999	ECONOMIC OPPORTUNITY COMMISSION SAN DIEGO COUNTY MIGRANT HE	Cole Information Services	
	OCEANSIDE UNIFIED SCHOOL DISTRICT SCHOOLS	Cole Information Services	
	PACIFICA ELEMENTARY SCHOOL	Cole Information Services	
	PACIFICA MIGRANT HEADSTART	Cole Information Services	
1995	Economic Opportunity Commission San Diego County Migrant Head Start	PACIFIC BELL WHITE PAGES	
	Pacifica Elementary	PACIFIC BELL WHITE PAGES	
	Pacifica Elementary School	PACIFIC BELL WHITE PAGES	
1994	ECONOMIC OPPORTUNITY CMMSSN	Cole Information Services	
	PACIFICA ELEMENTARY SCHOOL	Cole Information Services	
1991	Pacifica Elementary School	PACIFIC BELL WHITE PAGES	
1985	PACIFICA ELEMENTARY SCHOOL	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source
1980	PACIFICA ELEMENTARY SCHOOL	Pacific Telephone
1976	Pacifica Elementary School	Luskey Brothers & Co., Inc.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

4849 STEPHANIE PI

1 4849 STEPHANIE PI

Year	Uses	Source
1985	SPRENGELMEYER CARL	PACIFIC BELL WHITE PAGES

CARILLO CIR

600 CARILLO CIR

Year	Uses	Source
2017	MARTHA RINCON	Cole Information Services
2014	MARTHA RINCON	Cole Information Services
2009	MARTHA RINCON	Cole Information Services
2004	MARTHA RINCON	Cole Information Services
1999	MARTHA RINCON	Cole Information Services

601 CARILLO CIR

Year	Uses	Source	
2017	JARED GALEAI	Cole Information Services	
2014	JARED GALEAI	Cole Information Services	
2009	MARK VAILLANCOURT	Cole Information Services	
2006	LOWE James	Haines Company, Inc.	Image pg. A2
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	LOWE James	Haines Company, Inc.	
1999	MARK VAILLANCOURT	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1980	SNYDER FREDERICK O	Pacific Telephone	

CLAIRE DR

4770 CLAIRE DR

Year	Uses	Source
2017	ROSETTA SIDON	Cole Information Services

FINDINGS

Year	Uses	Source
2014	ROSETTA SIDON	Cole Information Services
2009	VIRGINIA SIDON	Cole Information Services
2004	HERIBERTO SIDON	Cole Information Services
1999	VIRGINIA SIDON	Cole Information Services

4771 CLAIRE DR

Year	Uses	Source
2017	JUDY MONGES	Cole Information Services
2014	FRANK CABRERA	Cole Information Services
2009	ROBERT CABRERA	Cole Information Services
2004	ROBERT CABRERA	Cole Information Services
1999	ROBERT CABRERA	Cole Information Services

4772 CLAIRE DR

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

4775 CLAIRE DR

Year	Uses	Source
2017	JOSE MONTESINOS	Cole Information Services
2014	JOSE MONTESINOS	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services

4776 CLAIRE DR

Year	Uses	Source
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services

4777 CLAIRE DR

Year	Uses	Source
2017	MATTHEW KOKOSZKA	Cole Information Services
2014	MATTHEW KOKOSZKA	Cole Information Services
2009	MATTHEW KOKOSZKA	Cole Information Services
2004	MATTHEW KOKOSZKA	Cole Information Services

FINDINGS

Year	Uses	Source	
1999	MATTHEW KOKOSZKA	Cole Information Services	
1994	KOKOSZKA, MATTHEW	Cole Information Services	

4778 CLAIRE DR

Year	Uses	Source	
2017	JENNI PINGLEY	Cole Information Services	
2014	JENNI PINGLEY	Cole Information Services	
2009	ROBERT PINGLEY	Cole Information Services	
2006	PINGLEY Robert	Haines Company, Inc.	Image pg. A3
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	PINGLEY Robert	Haines Company, Inc.	
1999	ROBERT PINGLEY	Cole Information Services	
1994	PINGLEY, ROBERT	Cole Information Services	
1991	Pingley Margaret	PACIFIC BELL WHITE PAGES	
	Pingley Robt	PACIFIC BELL WHITE PAGES	
1985	PINGLEY ROBT	PACIFIC BELL WHITE PAGES	
	PINGLEY MARGARET	PACIFIC BELL WHITE PAGES	
1980	PINGLEY ROBT	Pacific Telephone	
1976	Pingley Robert	Luskey Brothers & Co., Inc.	

4780 CLAIRE DR

Year	Uses	Source	
2009	WILLIAM BUCKMAN	Cole Information Services	
2006	BUCKMAN William	Haines Company, Inc.	Image pg. A3
2004	WILLIAM BUCKMAN	Cole Information Services	
2000	BUCKMAN William	Haines Company, Inc.	
1999	WILLIAM BUCKMAN	Cole Information Services	
1980	CASTILLO ELSA M	Pacific Telephone	
1976	Castillo Amelia	Luskey Brothers & Co., Inc.	

4781 CLAIRE DR

Year	Uses	Source
2017	THOMAS AIKEN	Cole Information Services
2014	THOMAS AIKEN	Cole Information Services

FINDINGS

Year	Uses	Source	
2009	THOMAS AIKEN	Cole Information Services	
2006	AIKEN Thomas	Haines Company, Inc.	Image pg. A3
2004	THOMAS AIKEN	Cole Information Services	
2000	AIKEN Thomas	Haines Company, Inc.	
1999	THOMAS AIKEN	Cole Information Services	
1980	AIKEN THOS L GY SGT	Pacific Telephone	

4785 CLAIRE DR

Year	Uses	Source	
2017	CIRO MARTINEZ	Cole Information Services	
2014	ELISEO LASTRA	Cole Information Services	
2009	PEDRO LASTRA	Cole Information Services	
2006	HERNANDEZ Lucila	Haines Company, Inc.	Image pg. A3
2004	CELESTINO HERNANDEZ	Cole Information Services	
2000	HERNANDEZ C	Haines Company, Inc.	
1999	PEDRO LASTRA	Cole Information Services	

4786 CLAIRE DR

Year	Uses	Source	
2017	CARMEN GOMEZ	Cole Information Services	
2014	JUANA GOMEZ	Cole Information Services	
2009	J LOPEZ	Cole Information Services	
2006	LOPEZ J	Haines Company, Inc.	Image pg. A3
2004	J LOPEZ	Cole Information Services	
	J GOMEZ	Cole Information Services	
2000	ELIZONDO David	Haines Company, Inc.	
1999	J LOPEZ	Cole Information Services	
1985	CLOTHIER GARY B	PACIFIC BELL WHITE PAGES	
1980	CLOTHIER GARY B	Pacific Telephone	

4787 CLAIRE DR

Year	Uses	Source
2017	MARIA RUDDER	Cole Information Services
2014	JAMES RIPA	Cole Information Services

FINDINGS

Year	Uses	Source	
2009	JAMES RIPA	Cole Information Services	
2006	RIPA James	Haines Company, Inc.	Image pg. A3
2004	PATRICK BARNES	Cole Information Services	
2000	DEHOND Lyndell	Haines Company, Inc.	
1999	JAMES RIPA	Cole Information Services	
1985	CAMACHO DAN I J	PACIFIC BELL WHITE PAGES	
1976	Johnson Russ Midge	Luskey Brothers & Co., Inc.	

4788 CLAIRE DR

Year	Uses	Source	
2017	DARIUS PARKER	Cole Information Services	
2014	ROBERT LAMBERT	Cole Information Services	
2009	BENNIE LAMBERT	Cole Information Services	
2006	LAMBERT Bennie	Haines Company, Inc.	Image pg. A3
2004	BENNIE LAMBERT	Cole Information Services	
2000	LAMBERT Bennie	Haines Company, Inc.	
1999	BENNIE LAMBERT	Cole Information Services	
1985	LAMBERT SHARRA K	PACIFIC BELL WHITE PAGES	
1980	LAMBERT KAREN & SHARRA	Pacific Telephone	
	LAMBERT BENNIE	Pacific Telephone	
1976	Lambert Benny	Luskey Brothers & Co., Inc.	

4790 CLAIRE DR

Year	Uses	Source	
2017	GISELLE CASTANEDA	Cole Information Services	
2014	MARK CASTANEDA	Cole Information Services	
2009	JESUS VARELA	Cole Information Services	
2006	VARELA Jesus	Haines Company, Inc.	Image pg. A3
	ESPINOZA Roberto	Haines Company, Inc.	Image pg. A3
2004	JESUS VARELA	Cole Information Services	
2000	VARELA Jesus E	Haines Company, Inc.	
	ESPINOZA Roberto	Haines Company, Inc.	
1999	JESUS VARELA	Cole Information Services	
1980	DEMUTH DAVID F MD MD	Pacific Telephone	

FINDINGS

4791 CLAIRE DR

Year	Uses	Source	
2017	TAMMI WALLACE	Cole Information Services	
2014	DEYCE LOPEZ	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	JARAMILLO Adam	Haines Company, Inc.	Image pg. A3
2004	ADAM JARAMILLO	Cole Information Services	
2000	RUSH Barbara	Haines Company, Inc.	
1994	MONTGOMERY, GEORGE B	Cole Information Services	
1980	MONTGOMERY GEO B	Pacific Telephone	

4795 CLAIRE DR

Year	Uses	Source	
2017	EDNA MAYFIELD	Cole Information Services	
2014	EDNA MAYFIELD	Cole Information Services	
2009	JAMES MAYFIELD	Cole Information Services	
2006	MAYFIELD James	Haines Company, Inc.	Image pg. A3
2004	JAMES MAYFIELD	Cole Information Services	
2000	MAYFIELD James	Haines Company, Inc.	
1999	JAMES MAYFIELD	Cole Information Services	

4796 CLAIRE DR

Year	Uses	Source	
2014	ROSE BATIS	Cole Information Services	
2009	ROSE BATIS	Cole Information Services	
2006	BATIS Raymond	Haines Company, Inc.	Image pg. A3
2004	RAYMOND BATIS	Cole Information Services	
2000	BATIS Raymond	Haines Company, Inc.	
1999	ROSE BATIS	Cole Information Services	

4798 CLAIRE DR

Year	Uses	Source
2017	ROBERTO DIAZ	Cole Information Services
2014	ROBERTO DIAZ	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source	
2006	HERNANDEZ Bernardo	Haines Company, Inc.	Image pg. A3
	GARCIA Virgilio	Haines Company, Inc.	Image pg. A3
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	ROCHA Jose	Haines Company, Inc.	

4799 CLAIRE DR

Year	Uses	Source
2014	LARRY CAMPBELL	Cole Information Services
2009	AGUSTIN CABRERA	Cole Information Services
2004	G ALCANTARA	Cole Information Services
	AGUSTIN CABRERA	Cole Information Services
2000	CABRERA Agustin	Haines Company, Inc.
1999	AGUSTIN CABRERA	Cole Information Services
1985	SHIPPEE STEPHEN	PACIFIC BELL WHITE PAGES

4800 CLAIRE DR

Year	Uses	Source	
2017	GLORIA VERA	Cole Information Services	
2014	LORENA PANTALEON	Cole Information Services	
2009	VICTOR ARCINIEGA	Cole Information Services	
2006	ARCINIEGA Maria	Haines Company, Inc.	Image pg. A3
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	ARCINIEGA Filomeno	Haines Company, Inc.	
1999	VICTOR ARCINIEGA	Cole Information Services	
1991	Salazar Ernesto A	PACIFIC BELL WHITE PAGES	
1985	SALAZAR ERNESTO A	PACIFIC BELL WHITE PAGES	
1980	SALAZAR ERNESTO A	Pacific Telephone	

4801 CLAIRE DR

Year	Uses	Source	
2017	TALEE GARCIA	Cole Information Services	
2014	RICK CARTER	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	MCAFEE Keith	Haines Company, Inc.	Image pg. A3

FINDINGS

Year	Uses	Source	
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	MCAFEE Kevin	Haines Company, Inc.	

4815 CLAIRE DR

Year	Uses	Source	
2017	MARJORIE BUCCAT	Cole Information Services	
2014	JERRY DUKE	Cole Information Services	
2009	JERRY DUKE	Cole Information Services	
2006	DUKE Jerry	Haines Company, Inc.	Image pg. A3
2004	JERRY DUKE	Cole Information Services	
2000	DUKE Jerry	Haines Company, Inc.	
1999	JERRY DUKE	Cole Information Services	
1980	BAKER CONNIE M	Pacific Telephone	
1976	D & H Pool Plastering	Luskey Brothers & Co., Inc.	

4816 CLAIRE DR

Year	Uses	Source	
2014	VALENTE GOMEZ	Cole Information Services	
2006	TAGUBA Rustico	Haines Company, Inc.	Image pg. A3
2004	GEORGE ILIFFE	Cole Information Services	
2000	XXXX	Haines Company, Inc.	
1985	CALDWELL EARL F JR	PACIFIC BELL WHITE PAGES	

4825 CLAIRE DR

Year	Uses	Source	
2014	EFREN BAUTISTA	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2004	IAN LYNE	Cole Information Services	
2000	PALLAZIOL Della	Haines Company, Inc.	
1991	Diaz Joe	PACIFIC BELL WHITE PAGES	
1985	DIAZ JOE	PACIFIC BELL WHITE PAGES	
1980	DIAZ JOE	Pacific Telephone	
1976	Diaz Joe Helen	Luskey Brothers & Co., Inc.	

FINDINGS

4826 CLAIRE DR

Year	Uses	Source	
2017	ANGEL DIAZ	Cole Information Services	
2014	NATIVIDAD CHAVEZ	Cole Information Services	
2009	ANGEL DIAZ	Cole Information Services	
2006	CHAVEZ Natividad	Haines Company, Inc.	Image pg. A3
	RAMIREZ Gerard	Haines Company, Inc.	Image pg. A3
2004	NATIVIDAD CHAVEZ	Cole Information Services	
2000	BERNARDINO Maria	Haines Company, Inc.	
	MCCART Carol	Haines Company, Inc.	
1999	ANGEL DIAZ	Cole Information Services	

4830 CLAIRE DR

Year	Uses	Source	
2017	MOISES OLIVAS	Cole Information Services	
2014	MOISES OLIVAS	Cole Information Services	
2009	ANTONIO OLIVAS	Cole Information Services	
2006	NUNEZ Silvia L	Haines Company, Inc.	Image pg. A3
	OLIVAS Antonio	Haines Company, Inc.	Image pg. A3
2004	MOISES OLIVAS	Cole Information Services	
2000	OLIVAS Antonio	Haines Company, Inc.	
1999	ANTONIO OLIVAS	Cole Information Services	
1991	Nunez Sylvia	PACIFIC BELL WHITE PAGES	
1976	Olivas Antonio	Luskey Brothers & Co., Inc.	

4831 CLAIRE DR

Year	Uses	Source	
2017	ROGELIO MONTESINOS	Cole Information Services	
2014	LETICIA MONTESINOS	Cole Information Services	
2009	ROSALINO MONTESINOS	Cole Information Services	
2006	MONTESINOS Rogelio	Haines Company, Inc.	Image pg. A3
2004	ROGELIO MONTESINOS	Cole Information Services	
2000	MONTESINOS RogeliO	Haines Company, Inc.	
1999	ROSALINO MONTESINOS	Cole Information Services	
1994	WILLIAMS, R	Cole Information Services	

FINDINGS

Year	Uses	Source	
1976	Trevino David Karen	Luskey Brothers & Co., Inc.	

4835 CLAIRE DR

Year	Uses	Source	
2017	MARJORIE RODRIGUEZ	Cole Information Services	
2014	MARJORIE RODRIGUEZ	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	BAKER Uelo	Haines Company, Inc.	Image pg. A3
2000	BAKER Consuelo	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
1985	FRITZ RUSSELL	PACIFIC BELL WHITE PAGES	
1980	ALLRED NORMA	Pacific Telephone	

4836 CLAIRE DR

Year	Uses	Source	
2017	PATRICIA WEBB	Cole Information Services	
2014	NICOLE CHILDS	Cole Information Services	
2009	JAMES COFFIE	Cole Information Services	
2006	LEACH Earl J	Haines Company, Inc.	Image pg. A3
2000	LEACH Earl J	Haines Company, Inc.	
1999	JAMES COFFIE	Cole Information Services	
1995	L TERREA	PACIFIC BELL WHITE PAGES	
1994	LEACH, EARL J	Cole Information Services	
1991	Leach James A Mire Sol Vst	PACIFIC BELL WHITE PAGES	
	Leach Earl J	PACIFIC BELL WHITE PAGES	
1985	LEACH EARL J	PACIFIC BELL WHITE PAGES	
1980	LEACH EARL J	Pacific Telephone	
1976	Leach Earl J	Luskey Brothers & Co., Inc.	

4840 CLAIRE DR

Year	Uses	Source
2017	RUBEN VASQUEZ	Cole Information Services
2014	RUBEN VASQUEZ	Cole Information Services
2009	RUBEN VASQUEZ	Cole Information Services

FINDINGS

Year	Uses	Source	
2006	VASQUEZ Ruben	Haines Company, Inc.	Image pg. A3
2004	RUBEN VASQUEZ	Cole Information Services	
2000	VASQUEZ Ruben	Haines Company, Inc.	
1999	RUBEN VASQUEZ	Cole Information Services	
1985	VASQUEZ RUBEN & CONSUELO	PACIFIC BELL WHITE PAGES	
1980	VASQUEZ RUBEN & CONSUELO	Pacific Telephone	
1976	Vasquez Ruben	Luskey Brothers & Co., Inc.	

4841 CLAIRE DR

Year	Uses	Source	
2017	RAMON AGUON	Cole Information Services	
2014	RAMON AGUON	Cole Information Services	
2009	RAMON AGUON	Cole Information Services	
2006	AGUON Ramon	Haines Company, Inc.	Image pg. A3
2004	RAMON AGUON	Cole Information Services	
2000	AGUON Ramon	Haines Company, Inc.	
1999	RAMON AGUON	Cole Information Services	
1985	MARKER HAROLD	PACIFIC BELL WHITE PAGES	
1980	MARKER HAROLD	Pacific Telephone	
1976	Marker HaroldMargie	Luskey Brothers & Co., Inc.	

4845 CLAIRE DR

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

4846 CLAIRE DR

Year	Uses	Source	
2017	JORGE CORTEZ	Cole Information Services	
2014	ROBERTO CORTEZ	Cole Information Services	
2009	ROBERTO CORTEZ	Cole Information Services	
2006	CORTEZ Roberto	Haines Company, Inc.	Image pg. A3
2004	ROBERTO CORTEZ	Cole Information Services	
2000	CORTEZ Roberto	Haines Company, Inc.	
1999	ROBERTO CORTEZ	Cole Information Services	

FINDINGS

Year	Uses	Source	
1994	CORTEZ, ROBERTO	Cole Information Services	
1991	Cartez Roberto	PACIFIC BELL WHITE PAGES	

4850 CLAIRE DR

Year	Uses	Source	
2017	CLAYTON GLIDDEN	Cole Information Services	
2014	CLAYTON GLIDDEN	Cole Information Services	
2009	CLAYTON GLIDDEN	Cole Information Services	
2006	GLIDDEN C	Haines Company, Inc.	Image pg. A3
2004	CLAYTON GLIDDEN	Cole Information Services	
2000	GLIDDEN Clayton F	Haines Company, Inc.	
1999	CLAYTON GLIDDEN	Cole Information Services	
1995	GUDDEN CLAYTON F	PACIFIC BELL WHITE PAGES	
1991	Glidden Clayton F	PACIFIC BELL WHITE PAGES	
1985	GLIDDEN CLAYTON F	PACIFIC BELL WHITE PAGES	
1980	GLIDDEN CLAYTON F	Pacific Telephone	

4851 CLAIRE DR

Year	Uses	Source	
2017	JESSICA MORALES	Cole Information Services	
2014	JESSICA BARAJAS	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	AGUILAR Luis	Haines Company, Inc.	Image pg. A3
2004	LUIS AGUILAR	Cole Information Services	
2000	MCHALE J P	Haines Company, Inc.	
1994	MCHALE, JAMES P	Cole Information Services	
1976	Bennett David W	Luskey Brothers & Co., Inc.	

4900 CLAIRE DR

Year	Uses	Source	
2014	LESTER OWEN	Cole Information Services	
2009	TROY SIMON	Cole Information Services	
2006	OWEN L	Haines Company, Inc.	Image pg. A3
2004	LESTER OWEN	Cole Information Services	

FINDINGS

Year	Uses	Source	
1999	TROY SIMON	Cole Information Services	
1985	OWEN LESTER L	PACIFIC BELL WHITE PAGES	
1980	OWEN LESTER L	Pacific Telephone	
1976	Owen Lester L Charlotte	Luskey Brothers & Co., Inc.	

4901 CLAIRE DR

Year	Uses	Source	
2017	MICHAEL GORA-SENGHOR	Cole Information Services	
2014	JOSEPH HINOJOSA	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	JACKSON Mickey	Haines Company, Inc.	Image pg. A3
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	RAWLINGS Joyce	Haines Company, Inc.	
	JACKSON Mickey	Haines Company, Inc.	

4912 CLAIRE DR

Year	Uses	Source	
2017	EFREN LOMELI	Cole Information Services	
2014	EFREN LOMELI	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	LOPEZ Noe	Haines Company, Inc.	Image pg. A3
	LOMELI Efren	Haines Company, Inc.	Image pg. A3
2004	NOE LOPEZ	Cole Information Services	
2000	LOMELI Elren	Haines Company, Inc.	
1995	MONTAGUE BILL	PACIFIC BELL WHITE PAGES	
1994	MONTAGUE, DAVE	Cole Information Services	
1991	Montague Janet K& Dave	PACIFIC BELL WHITE PAGES	
1985	HANCOCK ROBT J	PACIFIC BELL WHITE PAGES	
1980	BOUDREAUX LOUIS P	Pacific Telephone	
1976	Heinkel Deborah	Luskey Brothers & Co., Inc.	

4915 CLAIRE DR

Year	Uses	Source
2017	DWIGHT SAGUING	Cole Information Services

FINDINGS

Year	Uses	Source	
2014	DWIGHT SAGUING	Cole Information Services	
2009	FELIX SAGUING	Cole Information Services	
2006	SAGUING Felix	Haines Company, Inc.	Image pg. A3
2004	FELIX SAGUING	Cole Information Services	
2000	SAGUING Felix	Haines Company, Inc.	
1999	FELIX SAGUING	Cole Information Services	
1976	Saguing Felix D	Luskey Brothers & Co., Inc.	

4920 CLAIRE DR

Year	Uses	Source	
2017	RAUL NAVARRO	Cole Information Services	
2014	RAUL NAVARRO	Cole Information Services	
2009	RAUL NAVARRO	Cole Information Services	
2006	NAVARRO Esther	Haines Company, Inc.	Image pg. A3
2004	RAUL NAVARRO	Cole Information Services	
2000	NAVARRO Raul	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	RAUL NAVARRO	Cole Information Services	
1995	FRANK	PACIFIC BELL WHITE PAGES	
1994	FINN, G	Cole Information Services	
1985	ORYAL KELLEY J	PACIFIC BELL WHITE PAGES	
1980	VILLEGAS REYMUNDO	Pacific Telephone	

4921 CLAIRE DR

Year	Uses	Source	
2017	ADRIAN FLORES	Cole Information Services	
2014	ADRIAN FLORES	Cole Information Services	
2009	JUAN LARIZ	Cole Information Services	
2006	RAMOZ Gabino	Haines Company, Inc.	Image pg. A3
	CRUZ Gabino	Haines Company, Inc.	Image pg. A3
	LAVARREDA Jorge	Haines Company, Inc.	Image pg. A3
2004	LETICIA OROPEZA	Cole Information Services	
2000	OROPEZA Salvador	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	

FINDINGS

Year	Uses	Source	
1999	JUAN LARIZ	Cole Information Services	

4925 CLAIRE DR

Year	Uses	Source	
2017	SHAWN HARRIS	Cole Information Services	
2014	SHAWN HARRIS	Cole Information Services	
2009	SHAWN HARRIS	Cole Information Services	
2006	HARRIS Jas E	Haines Company, Inc.	Image pg. A3
2004	JAMES HARRIS	Cole Information Services	
2000	HARRIS Jas E	Haines Company, Inc.	
1999	SHAWN HARRIS	Cole Information Services	
1995	HARRIS IRWIN S	PACIFIC BELL WHITE PAGES	
1994	HARRIS, JAMES E	Cole Information Services	
1991	Harris Jas E	PACIFIC BELL WHITE PAGES	
	Harris James M	PACIFIC BELL WHITE PAGES	
1985	HARRIS JAS E	PACIFIC BELL WHITE PAGES	
1980	HARRIS JAS E	Pacific Telephone	

4926 CLAIRE DR

Year	Uses	Source	
2017	MICHAEL LADRILLONO	Cole Information Services	
2014	MICHAEL LADRILLONO	Cole Information Services	
2009	MICHAEL LADRILLONO	Cole Information Services	
2006	LADRILLONO Michael	Haines Company, Inc.	Image pg. A3
2000	XXXX	Haines Company, Inc.	
1999	MICHAEL LADRILLONO	Cole Information Services	
1994	MENDEZ, IGNACIO	Cole Information Services	
1980	SHELTON RAYMOND E	Pacific Telephone	
1976	Vasquez John T Cecila	Luskey Brothers & Co., Inc.	
	Vasquez Law rence PJrKathleen1408 Missouri Ocsd	Luskey Brothers & Co., Inc.	

4928 CLAIRE DR

Year	Uses	Source	
2014	ANTHONY DILLARD	Cole Information Services	

FINDINGS

Year	Uses	Source	
2009	COREY DILLARD	Cole Information Services	
2006	DILLARD Erlinda	Haines Company, Inc.	Image pg. A3
2004	COREY DILLARD	Cole Information Services	
2000	DILLARD Corey	Haines Company, Inc.	
	PONTERO Rosa	Haines Company, Inc.	
1999	COREY DILLARD	Cole Information Services	
1980	HOWCROFT JAS R	Pacific Telephone	

4931 CLAIRE DR

Year	Uses	Source	
2017	REYES EUSTAQUIO	Cole Information Services	
2014	REYES EUSTAQUIO	Cole Information Services	
2009	REYES EUSTAQUIO	Cole Information Services	
	MARISOL HOUSE CLEANING LADY	Cole Information Services	
2006	EUSTAQUIO VELA Reyes	Haines Company, Inc.	Image pg. A3
2004	REYES EUSTAQUIO-VELASCO	Cole Information Services	
2000	SMYTHE Steven J	Haines Company, Inc.	
1999	REYES EUSTAQUIO	Cole Information Services	
1985	GEISLER JACK	PACIFIC BELL WHITE PAGES	

4932 CLAIRE DR

Year	Uses	Source	
2014	DAN NGUYEN	Cole Information Services	
2009	DAN NGUYEN	Cole Information Services	
2006	NGUYEN Dan	Haines Company, Inc.	Image pg. A3
2004	B TURNBULL	Cole Information Services	
2000	TURNBULL B	Haines Company, Inc.	
1999	DAN NGUYEN	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	

4935 CLAIRE DR

Year	Uses	Source
2017	FREDRICK MARKHAM	Cole Information Services
2014	FREDRICK MARKHAM	Cole Information Services

FINDINGS

Year	Uses	Source	
2009	FREDRICK MARKHAM	Cole Information Services	
2006	MARKHAM Fredrick	Haines Company, Inc.	Image pg. A3
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	MARKHAM Fredrick	Haines Company, Inc.	
1999	FREDRICK MARKHAM	Cole Information Services	
1980	ESSLINGER RICHARD L & KATHERINE	Pacific Telephone	

4936 CLAIRE DR

Year	Uses	Source	
2017	JOSE MONTANEZ	Cole Information Services	
2014	JOSE MONTANEZ	Cole Information Services	
2006	MONTANEZ Jose	Haines Company, Inc.	Image pg. A3
2004	JOSE MONTANEZ	Cole Information Services	
2000	MONTANEZ Jose	Haines Company, Inc.	
1995	DAVIS ROBT S	PACIFIC BELL WHITE PAGES	
1994	DAVIS, TODD	Cole Information Services	
1985	DAVIS TODD	PACIFIC BELL WHITE PAGES	
1980	DAVIS TODD	Pacific Telephone	

4939 CLAIRE DR

Year	Uses	Source	
2017	ZOILO SANTOS	Cole Information Services	
2014	ZOILO SANTOS	Cole Information Services	
2009	AUGUSTIN CARRENO-CORTEZ	Cole Information Services	
2006	FRIEND Timothy	Haines Company, Inc.	Image pg. A3
2004	MARK HERRING	Cole Information Services	
2000	GONZALES Emily R	Haines Company, Inc.	
1999	AUGUSTIN CARRENO-CORTEZ	Cole Information Services	
1985	PARENT J R C	PACIFIC BELL WHITE PAGES	
1980	PARENT J R C	Pacific Telephone	

FINDINGS

CLAIRE OR

4799 CLAIRE OR

Year	Uses	Source	
1976	Paliesen Robert D MSgt	Luskey Brothers & Co., Inc.	

CLAIRE ST

4791 CLAIRE ST

Year	Uses	Source	
1976	Montgomery George B Frances	Luskey Brothers & Co., Inc.	

GOLD DR

553 GOLD DR

Year	Uses	Source	
2014	ESTHER RODRIGUEZ	Cole Information Services	
2009	ESTHER RODRIGUEZ	Cole Information Services	
2006	RODRIGUEZ Esther	Haines Company, Inc.	Image pg. A4
2004	ELIZABETH ALCANTAR	Cole Information Services	
2000	SALAZAR Sara	Haines Company, Inc.	
1999	ESTHER RODRIGUEZ	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1995	SULLIVAN B	PACIFIC BELL WHITE PAGES	
1994	AUSMUS, RONALD J	Cole Information Services	
	SULLIVAN, GERALD D	Cole Information Services	
1980	DRURY ALAN & MARY LEE	Pacific Telephone	
1970	Anders Forest L Judy 553 Gold Dr	John M. Ducy	

554 GOLD DR

Year	Uses	Source	
2017	LEWIS HARLEY	Cole Information Services	
2014	LEWIS HARLEY	Cole Information Services	
2009	LEWIS HARLEY	Cole Information Services	
2006	XXXX	Haines Company, Inc.	Image pg. A4
2004	LEWIS HARLEY	Cole Information Services	

FINDINGS

Year	Uses	Source	
2000	HARLEY Lew is	Haines Company, Inc.	
1999	LEWIS HARLEY	Cole Information Services	
1980	MCKEE HOWARD M	Pacific Telephone	
1976	Mc Kee How ard M Helen	Luskey Brothers & Co., Inc.	

555 GOLD DR

Year	Uses	Source	
2017	PEDRO PATINO	Cole Information Services	
2014	PEDRO PATINO	Cole Information Services	
2009	PEDRO PATINO	Cole Information Services	
2006	PATINO Pedro	Haines Company, Inc.	Image pg. A4
2004	PEDRO PATINO	Cole Information Services	
2000	PATINO Padro	Haines Company, Inc.	
1999	PEDRO PATINO	Cole Information Services	
1980	CAMPOS MARIA	Pacific Telephone	
1970	Smith Claude 0 Fukue 555 Gold Dr	John M. Ducy	

556 GOLD DR

Year	Uses	Source	
2017	JUSTIN MANSFIELD	Cole Information Services	
2014	JUSTIN MANSFIELD	Cole Information Services	
2009	ALBERTA HERNANDEZ	Cole Information Services	
2006	RODRIGUEZ Juana	Haines Company, Inc.	Image pg. A4
2004	JOSE VARGAS	Cole Information Services	
2000	ANDRES Sixto	Haines Company, Inc.	
1999	ALBERTA HERNANDEZ	Cole Information Services	
1995	ANDREOLA JOSEPH M & ANN	PACIFIC BELL WHITE PAGES	
1994	ANDRES, SIXTO	Cole Information Services	
1991	Andres Y	PACIFIC BELL WHITE PAGES	
	Andres Sixto	PACIFIC BELL WHITE PAGES	
1985	AN RES SIXTO	PACIFIC BELL WHITE PAGES	
1980	ANDRES SIXTO	Pacific Telephone	
1970	Mc Kenna Joseph C Eileen 556 Gold Dr	John M. Ducy	

FINDINGS

557 GOLD DR

Year	Uses	Source	
2017	MARIO LOPEZ	Cole Information Services	
2014	MARIO LOPEZ	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	CARRENO Rey	Haines Company, Inc.	Image pg. A4
	LOPEZ Mario	Haines Company, Inc.	Image pg. A4
2004	MARIO LOPEZ	Cole Information Services	
2000	SIMKINS Robert	Haines Company, Inc.	
1985	KUSH S K	PACIFIC BELL WHITE PAGES	
1980	KUSH JOHN W	Pacific Telephone	
1976	Kush John W Sharon	Luskey Brothers & Co., Inc.	
1970	How ard John T Carol 557 Gold Dr	John M. Ducy	

558 GOLD DR

Year	Uses	Source	
2017	JESUS PALIS	Cole Information Services	
2014	BRANDON BAY	Cole Information Services	
2009	JOSE RAMIREZ	Cole Information Services	
2006	RAMIREZ Jose	Haines Company, Inc.	Image pg. A4
2004	JOSE RAMIREZ	Cole Information Services	
2000	RAMIREZ Jose	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	JOSE RAMIREZ	Cole Information Services	
1991	Ramirez Jose & Adriana	PACIFIC BELL WHITE PAGES	
	Ramirez Jose Adolfo	PACIFIC BELL WHITE PAGES	
1985	RAMIREZ JOSE ADOLFO	PACIFIC BELL WHITE PAGES	
1980	RAMIREZ JOSE ADOLFO	Pacific Telephone	
1970	La Rue Billy B Oleta 558 Gold Dr	John M. Ducy	

559 GOLD DR

Year	Uses	Source
2017	LARRY HOWARD	Cole Information Services
2014	LARRY HOWARD	Cole Information Services
2009	LARRY HOWARD	Cole Information Services

FINDINGS

Year	Uses	Source	
2006	HOWARD Larry	Haines Company, Inc.	Image pg. A4
2004	LARRY HOWARD	Cole Information Services	
2000	SKINNER George	Haines Company, Inc.	
1999	LARRY HOWARD	Cole Information Services	
1991	Skinner Tom &Mindy	PACIFIC BELL WHITE PAGES	
1985	STEVESON JOS L	PACIFIC BELL WHITE PAGES	
1970	Archer Jack E Mary 559 Gold Or	John M. Ducy	
	Archer Jack Mary 559 Gold Dr	John M. Ducy	

560 GOLD DR

Year	Uses	Source	
2017	GEORGE WEAVER	Cole Information Services	
2014	GEORGE WEAVER	Cole Information Services	
2009	GEORGE WEAVER	Cole Information Services	
2006	WEAVER Geo A	Haines Company, Inc.	Image pg. A4
2004	GEORGE WEAVER	Cole Information Services	
2000	WEAVER Elizabeth R	Haines Company, Inc.	
	WEAVER Geo A	Haines Company, Inc.	
1999	GEORGE WEAVER	Cole Information Services	
1995	WEAVER A	PACIFIC BELL WHITE PAGES	
1994	WEAVER, GEORGE A	Cole Information Services	
1991	Weaver Geo A & Elizabeth R	PACIFIC BELL WHITE PAGES	
	Weaver George A Jr	PACIFIC BELL WHITE PAGES	
	Weaver George Jr.....	PACIFIC BELL WHITE PAGES	
1985	WEAVER GEO A & ELIZABETH R	PACIFIC BELL WHITE PAGES	
1980	WEAVER GEO A & ELIZABETH R	Pacific Telephone	
1970	Murray Richard A Rita 560 Gold Dr	John M. Ducy	

561 GOLD DR

Year	Uses	Source	
2017	RYAN LEAVER	Cole Information Services	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	MARIO JUAREZ	Cole Information Services	
2006	MUNOZ Francisco	Haines Company, Inc.	Image pg. A4

FINDINGS

Year	Uses	Source	
2004	FRANCISCO MUNOZ	Cole Information Services	
2000	MUNOZ Francisco	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	MARIO JUAREZ	Cole Information Services	
1976	Lantz Ronald Sharon	Luskey Brothers & Co., Inc.	
1970	Karas Clifford J Louise 561 Gold Dr	John M. Ducy	

562 GOLD DR

Year	Uses	Source	
2017	LINDA PEREZ	Cole Information Services	
2014	LINDA PEREZ	Cole Information Services	
2009	LINDA PEREZ	Cole Information Services	
2006	PEREZ Linda	Haines Company, Inc.	Image pg. A4
2004	RAQUEL MARTINEZ	Cole Information Services	
2000	PEREZ Linda	Haines Company, Inc.	
1999	LINDA PEREZ	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1991	Hino osa Ysidro	PACIFIC BELL WHITE PAGES	
	Hinostroza Adriana	PACIFIC BELL WHITE PAGES	

563 GOLD DR

Year	Uses	Source	
2017	ERICK GUERRERO	Cole Information Services	
2014	JOHN VERA	Cole Information Services	
2009	GLORIA CARRENO	Cole Information Services	
2006	CARRENO Rey	Haines Company, Inc.	Image pg. A4
2004	REY CARRENO	Cole Information Services	
2000	FARIAS Sarah	Haines Company, Inc.	
1999	GLORIA CARRENO	Cole Information Services	
1991	Foster Fred A	PACIFIC BELL WHITE PAGES	
1985	FOSTER FRED A	PACIFIC BELL WHITE PAGES	
1970	Foster Fred Mildred 563 Gold Dr	John M. Ducy	

FINDINGS

564 GOLD DR

Year	Uses	Source	
2017	JORGE MARTINEZ	Cole Information Services	
2014	GEORGE MARTINEZ	Cole Information Services	
2009	GEORGE MARTINEZ	Cole Information Services	
2006	MARTINEZ George	Haines Company, Inc.	Image pg. A4
2004	JORGE MARTINEZ	Cole Information Services	
1999	GEORGE MARTINEZ	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1980	GRONEMAN ANDREW L	Pacific Telephone	

565 GOLD DR

Year	Uses	Source	
2014	PEREZ ROSANO	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	HERNANDEZ Jose	Haines Company, Inc.	Image pg. A4
2004	JOSE HERNANDEZ	Cole Information Services	
2000	HERNANDEZ Jose	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
1994	HERNANDEZ, JOSE M	Cole Information Services	
1991	Oxford Denver	PACIFIC BELL WHITE PAGES	
1985	OXFORD DENVER	PACIFIC BELL WHITE PAGES	
1980	OXFORD DENVER	Pacific Telephone	
1970	Oxford Denver D Margaret 565 Gold Or	John M. Ducy	

566 GOLD DR

Year	Uses	Source	
2017	RONNIE HOUSE	Cole Information Services	
2014	RONNIE HOUSE	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	HOUSE Ronnie	Haines Company, Inc.	Image pg. A4
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	HOUSE Ronnie	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
1991	House Ron & Elaine	PACIFIC BELL WHITE PAGES	

Year	Uses	Source
1976	King Marceline	Luskey Brothers & Co., Inc.

567 GOLD DR

Year	Uses	Source
2017	WILLIAM GRAHAM	Cole Information Services
2014	WILLIAM GRAHAM	Cole Information Services
2009	PACK 789	Cole Information Services
	WILLIAM GRAHAM	Cole Information Services
2004	PACK 789	Cole Information Services
	WILLIAM GRAHAM	Cole Information Services
1999	WILLIAM GRAHAM	Cole Information Services

LONA DR

523 LONA DR

Year	Uses	Source
1992	Deitch Blaine M	PACIFIC BELL WHITE PAGES

LUNA DE ORO

539 LUNA DE ORO

Year	Uses	Source
1995	YANTSIN NICHOLAS	PACIFIC BELL WHITE PAGES
1985	YANTSIN NICHOLAS	PACIFIC BELL WHITE PAGES

LUNA DR

510 LUNA DR

Year	Uses	Source
2017	ANDREW FRASER	Cole Information Services
2014	ANDREW FRASER	Cole Information Services
2009	ANDREW FRASER	Cole Information Services
2004	ANDREW FRASER	Cole Information Services
1999	ANDREW FRASER	Cole Information Services

FINDINGS

514 LUNA DR

Year	*Uses*	*Source*	
2017	JOSEPH TASSINARI	Cole Information Services	
2014	TIFFANY CASTANEDA	Cole Information Services	
2009	JOSEPH TASSINARI	Cole Information Services	
2006	ROMERO Luis	Haines Company, Inc.	Image pg. A5
2004	LUIS ROMERO	Cole Information Services	
2000	ROMERO Luis	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	JOSEPH TASSINARI	Cole Information Services	
1985	HANSON PETER	PACIFIC BELL WHITE PAGES	
1980	WOLS WARREN C	Pacific Telephone	
1970	Black 0 514 Luna Dr	John M. Ducy	

515 LUNA DR

Year	*Uses*	*Source*	
2017	JOY LOPEZ	Cole Information Services	
2014	BELIA DAL	Cole Information Services	
2009	O SLICK	Cole Information Services	
2006	SLICK E J	Haines Company, Inc.	Image pg. A5
2004	KAZUE SLICK	Cole Information Services	
2000	SLICK E J	Haines Company, Inc.	
1999	O SLICK	Cole Information Services	
1995	SLICK EJ	PACIFIC BELL WHITE PAGES	
1994	SLICK, E J	Cole Information Services	
1985	SLICK E J	PACIFIC BELL WHITE PAGES	
1980	SLICK E J	Pacific Telephone	

517 LUNA DR

Year	*Uses*	*Source*	
2017	ELEUTERIO CRUZ	Cole Information Services	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	CANTERA Isidro	Haines Company, Inc.	Image pg. A5
2004	MARIA SOTO	Cole Information Services	

FINDINGS

Year	Uses	Source	
2000	JIMENEZ Alicia Rafael	Haines Company, Inc.	
	CANTERA Isidro	Haines Company, Inc.	
1991	Cantera Isidro	PACIFIC BELL WHITE PAGES	
1980	MYERS THOS	Pacific Telephone	

521 LUNA DR

Year	Uses	Source	
2017	ARTHUR MENDOZA	Cole Information Services	
2014	DINA CASTANEDA	Cole Information Services	
2009	IRENE CASTANEDA	Cole Information Services	
2006	MENDOZA Arthur	Haines Company, Inc.	Image pg. A5
	CASTANEDA Dina	Haines Company, Inc.	Image pg. A5
2004	ARTHUR MENDOZA	Cole Information Services	
2000	MENDOZA Arthur	Haines Company, Inc.	
1999	IRENE CASTANEDA	Cole Information Services	
1994	MENDOZA, ART	Cole Information Services	
1991	Mendoza Art & Ruby	PACIFIC BELL WHITE PAGES	
1985	PAPAGEORGE CHAS	PACIFIC BELL WHITE PAGES	
1976	Lickert Robert	Luskey Brothers & Co., Inc.	
	Communications	Luskey Brothers & Co., Inc.	
	Hammers Joseph S Phyllis	Luskey Brothers & Co., Inc.	
	Hammett Lanham WBetty6677 Paseo Del Norte @Carlsbad@	Luskey Brothers & Co., Inc.	

522 LUNA DR

Year	Uses	Source	
2014	FERNANDO GARCIA	Cole Information Services	
2009	FERNANDO GARCIA	Cole Information Services	
2006	JACO Jason	Haines Company, Inc.	Image pg. A5
2004	JASON JACO	Cole Information Services	
2000	VERMEULEN Ronald	Haines Company, Inc.	
1999	FERNANDO GARCIA	Cole Information Services	

FINDINGS

525 LUNA DR

Year	Uses	Source	
2017	OSCAR CORTEZ	Cole Information Services	
2014	LUIS CHAVEZ	Cole Information Services	
2009	LUIS CHAVEZ	Cole Information Services	
2006	CHAVEZ Luis	Haines Company, Inc.	Image pg. A5
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	SMITH Joseph	Haines Company, Inc.	
1999	LUIS CHAVEZ	Cole Information Services	

526 LUNA DR

Year	Uses	Source	
2017	ROBERT OXNER	Cole Information Services	
2014	ROBERT OXNER	Cole Information Services	
2009	ROBERT OXNER	Cole Information Services	
2006	OXNER Robt L	Haines Company, Inc.	Image pg. A5
2004	ROBERT OXNER	Cole Information Services	
2000	OXNER Robt L	Haines Company, Inc.	
1999	ROBERT OXNER	Cole Information Services	

531 LUNA DR

Year	Uses	Source	
2017	DENISE MARCELLE	Cole Information Services	
2014	DENISE MARCELLE	Cole Information Services	
2009	DENISE MARCELLE	Cole Information Services	
2004	DENISE MARCELLE	Cole Information Services	
2000	DAVIS Jean	Haines Company, Inc.	
1999	DENISE MARCELLE	Cole Information Services	
1980	DAVIS JEAN	Pacific Telephone	

534 LUNA DR

Year	Uses	Source	
2014	ROSS ROCKEY	Cole Information Services	
2009	RANDALL ROCKEY	Cole Information Services	
2006	ROCKEY R R	Haines Company, Inc.	Image pg. A5

FINDINGS

Year	Uses	Source	
2004	RANDALL ROCKETT	Cole Information Services	
2000	ROCKEY R R Rockie	Haines Company, Inc.	
1999	RANDALL ROCKEY	Cole Information Services	
1985	MACK WM	PACIFIC BELL WHITE PAGES	
1980	THOMA TORLKO S	Pacific Telephone	
	THOMA JUNEKO	Pacific Telephone	
1976	Thoma Lyman LJ Tokiko	Luskey Brothers & Co., Inc.	

535 LUNA DR

Year	Uses	Source	
2017	LOUIS WILLIAMS	Cole Information Services	
2014	LOUIS WILLIAMS	Cole Information Services	
2009	LOUIS WILLIAMS	Cole Information Services	
2006	STEVENSON Robert	Haines Company, Inc.	Image pg. A5
	WILLIAMS Susan	Haines Company, Inc.	Image pg. A5
2004	LOUIS WILLIAMS	Cole Information Services	
2000	STEVENSON Robert	Haines Company, Inc.	
	WILLIAMS L Mgysgt	Haines Company, Inc.	
	WILLIAMS Susan	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	LOUIS WILLIAMS	Cole Information Services	
1995	WILLIAMS JOHN J& BROOKS	PACIFIC BELL WHITE PAGES	
1994	WILLIAMS, LOUIS	Cole Information Services	
1991	Williams Louis MGy Sgt & Susan	PACIFIC BELL WHITE PAGES	
1985	STEVENSON ROBT L	PACIFIC BELL WHITE PAGES	
	STEVENSON ALFREIDA	PACIFIC BELL WHITE PAGES	
1980	STEVENSON ROBT L	Pacific Telephone	
1976	Stevenson Robert L	Luskey Brothers & Co., Inc.	

538 LUNA DR

Year	Uses	Source
2017	KAM ROPER	Cole Information Services
2014	JENNIFER BARRON	Cole Information Services
2009	STEPHEN ALTMAN	Cole Information Services

FINDINGS

Year	Uses	Source	
2006	ROCKEY Randall	Haines Company, Inc.	Image pg. A5
2004	DARCIE WILEY	Cole Information Services	
2000	GRUBBS Clifton	Haines Company, Inc.	
1999	STEPHEN ALTMAN	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1985	TREVINO OSCAR	PACIFIC BELL WHITE PAGES	
1970	Winters Guy E 538 Luna Dr	John M. Ducy	

539 LUNA DR

Year	Uses	Source	
2017	GUADALUPE ROSAS	Cole Information Services	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	CARLOS ROSAS	Cole Information Services	
2006	ROSAS Jaime	Haines Company, Inc.	Image pg. A5
2004	CARLOS ROSAS	Cole Information Services	
2000	ELLENWOOD Kristine	Haines Company, Inc.	
	YANTSIN Nicholas	Haines Company, Inc.	
1999	CARLOS ROSAS	Cole Information Services	
1994	YANTSIN, N	Cole Information Services	
1991	Yantsin Nicholas	PACIFIC BELL WHITE PAGES	
1980	YANTSIN NICHOLAS	Pacific Telephone	
1976	Yantsin N icholas	Luskey Brothers & Co., Inc.	

542 LUNA DR

Year	Uses	Source	
2006	GEE Charles	Haines Company, Inc.	Image pg. A5
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	GEE Charles	Haines Company, Inc.	
1976	Rarnirez Martin G Genevieve	Luskey Brothers & Co., Inc.	

543 LUNA DR

Year	Uses	Source
2017	IGNACIA HERNANDEZ	Cole Information Services
2014	JESSE ZARATE	Cole Information Services

FINDINGS

Year	Uses	Source	
2009	JESSE ZARATE	Cole Information Services	
2006	ZARATE Jesse	Haines Company, Inc.	Image pg. A5
2004	JESSE ZARATE	Cole Information Services	
2000	ZARATE Jesse	Haines Company, Inc.	
1999	JESSE ZARATE	Cole Information Services	
1995	ZARATE A	PACIFIC BELL WHITE PAGES	
1994	ZARATE, JESSE	Cole Information Services	
1991	Zarate Jesse	PACIFIC BELL WHITE PAGES	
1985	ZARATE JESSE	PACIFIC BELL WHITE PAGES	
1980	ZARATE JESSE	Pacific Telephone	
1976	Wakefield Samuel R	Luskey Brothers & Co., Inc.	

547 LUNA DR

Year	Uses	Source	
2017	RAMON CARO	Cole Information Services	
2014	JESUS OROPEZA	Cole Information Services	
2009	JESUS VILLEGAS	Cole Information Services	
2006	VERGARA Rolando	Haines Company, Inc.	Image pg. A5
2004	ROLANDO VERGARA	Cole Information Services	
2000	HENRY Ronald	Haines Company, Inc.	
1999	JESUS VILLEGAS	Cole Information Services	
1980	GRUBBS ROBT E	Pacific Telephone	

548 LUNA DR

Year	Uses	Source	
2017	JOHN FAIMALIE	Cole Information Services	
2014	VILIAMU FAIMALIE	Cole Information Services	
2009	VILIAMU FAIMALIE	Cole Information Services	
2006	FAIMALIE John	Haines Company, Inc.	Image pg. A5
2004	VILIAMU FAIMALIE	Cole Information Services	
2000	FAIMALIE Viliamu	Haines Company, Inc.	
1999	VILIAMU FAIMALIE	Cole Information Services	

FINDINGS

552 LUNA DR

Year	Uses	Source	
2017	ADAM BONGARD	Cole Information Services	
2014	MATTHEW KERLIN	Cole Information Services	
2009	L JARRETT	Cole Information Services	
2006	XXXX	Haines Company, Inc.	Image pg. A5
2004	RICHARD STANLEY	Cole Information Services	
	L JARRETT	Cole Information Services	
	JASON BECKWITH	Cole Information Services	
2000	STANLEY Richard	Haines Company, Inc.	
1999	L JARRETT	Cole Information Services	
1980	RANSOM AUNIE	Pacific Telephone	

LUNA DR N

510 LUNA DR N

Year	Uses	Source
1970	Green Ronald P Shirley 510 N Luna Dr	John M. Ducy

514 LUNA DR N

Year	Uses	Source
1970	Sweeney Donald D Christine 514 N Luna Dr	John M. Ducy

515 LUNA DR N

Year	Uses	Source
1970	Slick Edward J Kazue 515 N Luna Dr	John M. Ducy

517 LUNA DR N

Year	Uses	Source
1970	Robinson Carl Selma 517 N Luna Dr	John M. Ducy

522 LUNA DR N

Year	Uses	Source
1970	Ortego Richard E Aretta 522 N Luna Df	John M. Ducy

FINDINGS

525 LUNA DR N

Year	*Uses*	*Source*
1970	Scharmber Jos 0 Nancy 525 N Luna Dr	John M. Ducy

526 LUNA DR N

Year	*Uses*	*Source*
1970	Oxner Rabt L Catherine 526 N Luna Dr	John M. Ducy

531 LUNA DR N

Year	*Uses*	*Source*
1970	Davis Daniel D Jean 531 N Luna Dr	John M. Ducy

534 LUNA DR N

Year	*Uses*	*Source*
1970	Thoma Lyman J Tokiko 534 N Luna Dr	John M. Ducy

535 LUNA DR N

Year	*Uses*	*Source*
1970	Davis Shetton B Ellen 535 N Luna Dr	John M. Ducy

539 LUNA DR N

Year	*Uses*	*Source*
1970	Jose E H Helen 539 N Luna Dr	John M. Ducy

542 LUNA DR N

Year	*Uses*	*Source*
1970	Ramirez Martin G Geneive 542 N Luna Dr	John M. Ducy

547 LUNA DR N

Year	*Uses*	*Source*
1970	West Jo Ann C 547 N Luna Dr 75 7 I	John M. Ducy

548 LUNA DR N

Year	*Uses*	*Source*
1970	Crancldell Lt Col John E Jeanie Marie 548 N Luna Dr	John M. Ducy

FINDINGS

552 LUNA DR N

Year	Uses	Source	
1970	Curtin Edw M Natsue 552 N Luna Dr	John M. Ducy	

LUNA OR

514 LUNA OR

Year	Uses	Source	
1976	Wols Warren C Judith	Luskey Brothers & Co., Inc.	

MACARIO DR

4996 MACARIO DR

Year	Uses	Source	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	PRIMITIVO SANTIAGO	Cole Information Services	
2006	RUIZ Miguel	Haines Company, Inc.	Image pg. A1
	SANTIAGO Primitivo	Haines Company, Inc.	Image pg. A1
2004	DONALD SCOTT	Cole Information Services	
2000	SCOTT Donald	Haines Company, Inc.	
1999	PRIMITIVO SANTIAGO	Cole Information Services	
1994	SCOTT, DONALD	Cole Information Services	
1991	Scott Donald	PACIFIC BELL WHITE PAGES	
1985	SCOTT LAURA	PACIFIC BELL WHITE PAGES	
	SCOTT DONALD	PACIFIC BELL WHITE PAGES	
1980	SCOTT DONALD	Pacific Telephone	

4998 MACARIO DR

Year	Uses	Source	
2017	CA LATH & PLASTER	Cole Information Services	
	JOSE AVILEZ	Cole Information Services	
2014	JOSE AVILEZ	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	AVILEZ Jose	Haines Company, Inc.	Image pg. A1
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	THRASHER David	Haines Company, Inc.	

FINDINGS

Year	Uses	Source	
1999	OCCUPANT UNKNOWN	Cole Information Services	
1976	Moore Willie C	Luskey Brothers & Co., Inc.	

4999 MACARIO DR

Year	Uses	Source	
2017	ZENON HURTADO	Cole Information Services	
2014	JASON SOKOL	Cole Information Services	
2009	ROBERTO GUTIERREZ	Cole Information Services	
2006	PISCO Lea	Haines Company, Inc.	Image pg. A1
2004	W BALAJADIA	Cole Information Services	
	BERNARDINO PISCO	Cole Information Services	
2000	PISCO Bernardino	Haines Company, Inc.	
1999	ROBERTO GUTIERREZ	Cole Information Services	
1991	Balajadia Rosario	PACIFIC BELL WHITE PAGES	
1985	BALEJADLA JOSE	PACIFIC BELL WHITE PAGES	
	BALAJADLA BECKY	PACIFIC BELL WHITE PAGES	
	BALAJADIA ROSARIO	PACIFIC BELL WHITE PAGES	
1980	BALAJADIA JOSE	Pacific Telephone	
1976	Balajadia Jose Rosario	Luskey Brothers & Co., Inc.	

5000 MACARIO DR

Year	Uses	Source	
2017	FRANCISCO CRUZ	Cole Information Services	
2014	FRANCISCO CRUZ	Cole Information Services	
2009	LORENZO LOPEZ	Cole Information Services	
2006	LOPEZ Gabriel	Haines Company, Inc.	Image pg. A1
2004	LORENZO LOPEZ	Cole Information Services	
2000	LOPEZ Gabriel	Haines Company, Inc.	
1999	LORENZO LOPEZ	Cole Information Services	
1995	LOPEZ DOMINGO	PACIFIC BELL WHITE PAGES	
1994	LOPEZ, GABRIEL	Cole Information Services	
1976	Urban Stephen G Linda	Luskey Brothers & Co., Inc.	

FINDINGS

5001 MACARIO DR

Year	*Uses*	*Source*	
2017	TERESITA ROXAS	Cole Information Services	
2014	HEATHER CHICK	Cole Information Services	
	VICTOR ESTRADA	Cole Information Services	
2009	ESTRADA URIBE	Cole Information Services	
2006	XXXX	Haines Company, Inc.	Image pg. A1
2004	CANDICE SCAIFE	Cole Information Services	
2000	SCAIFE Vera	Haines Company, Inc.	
1999	ESTRADA URIBE	Cole Information Services	

5005 MACARIO DR

Year	*Uses*	*Source*	
2014	JUAN WATERMAN	Cole Information Services	
2009	FRANCISCA ROMUALDO	Cole Information Services	
2006	CANSECO Donato	Haines Company, Inc.	Image pg. A1
2004	DONATO CANSECO	Cole Information Services	
2000	WATERMAN Juan	Haines Company, Inc.	
1999	FRANCISCA ROMUALDO	Cole Information Services	
1985	KUBETZ JON S	PACIFIC BELL WHITE PAGES	

5006 MACARIO DR

Year	*Uses*	*Source*	
2017	ANDREW SAVOIA	Cole Information Services	
2014	ROLAND BUYAMA	Cole Information Services	
2009	ADOLFO BENAVIDEZ	Cole Information Services	
2006	GARCIA Jose Luis	Haines Company, Inc.	Image pg. A1
	BENAVIDEZ Adolfo	Haines Company, Inc.	Image pg. A1
2004	ADOLFO BENAVIDEZ	Cole Information Services	
2000	BENAVIDEZ Adolfo	Haines Company, Inc.	
1999	ADOLFO BENAVIDEZ	Cole Information Services	
1995	BAROFSKY MARVIN	PACIFIC BELL WHITE PAGES	
1994	BAROFSKY, MARVIN	Cole Information Services	
1985	RAMIREZ MIGUEL & MARIA OCEANSIDE 721 S 06	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source	
1980	ALLEN J L	Pacific Telephone	
1976	Maykovich James M Mary	Luskey Brothers & Co., Inc.	

5010 MACARIO DR

Year	Uses	Source	
2017	ANTONIA DELACRUZ	Cole Information Services	
2014	ANTONIA DELACRUZ	Cole Information Services	
2009	ANTONIA DELACRUZ	Cole Information Services	
2006	DELACRUZ Fidel	Haines Company, Inc.	Image pg. A1
2004	FIDEL DELACRUZ	Cole Information Services	
2000	DELACRUZ Fidel	Haines Company, Inc.	
1999	ANTONIA DELACRUZ	Cole Information Services	
1976	De La Cruz Fidel	Luskey Brothers & Co., Inc.	

5011 MACARIO DR

Year	Uses	Source	
2017	JOAQUIN FLORES	Cole Information Services	
2014	JOAQUIN FLORES	Cole Information Services	
2009	JOAQUIN FLORES	Cole Information Services	
2006	FLORES Joaquin	Haines Company, Inc.	Image pg. A1
2004	JOAQUIN FLORES	Cole Information Services	
2000	FLORES Joaquin	Haines Company, Inc.	
1999	JOAQUIN FLORES	Cole Information Services	
1991	Steffens David & Maureen	PACIFIC BELL WHITE PAGES	
1980	DEROUEN J E	Pacific Telephone	
	GREEN GLENVILLE	Pacific Telephone	

5014 MACARIO DR

Year	Uses	Source	
2017	FREDERICK TOLENTINO	Cole Information Services	
2014	FREDERICK TOLENTINO	Cole Information Services	
2009	FREDERICK TOLENTINO	Cole Information Services	
2006	TOLENTINO Maria	Haines Company, Inc.	Image pg. A1
2004	FREDERICK TOLENTINO	Cole Information Services	

FINDINGS

Year	Uses	Source	
2000	TOLENTINO F	Haines Company, Inc.	
1999	FREDERICK TOLENTINO	Cole Information Services	
1991	Martinez Ricardo Jr & Gloria	PACIFIC BELL WHITE PAGES	
	Martinez Monica L	PACIFIC BELL WHITE PAGES	
1976	Martinez Ricardo Gloria	Luskey Brothers & Co., Inc.	

5015 MACARIO DR

Year	Uses	Source	
2014	RICHARD DIBISCH	Cole Information Services	
2009	MARIA MENERA	Cole Information Services	
2006	QUEVEDO Roman	Haines Company, Inc.	Image pg. A1
	GODINEZ Francisco	Haines Company, Inc.	Image pg. A1
2004	FRANCISCO GODINEZ	Cole Information Services	
2000	GODINEZ Francisco	Haines Company, Inc.	
1999	MARIA MENERA	Cole Information Services	
1985	COOPER C	PACIFIC BELL WHITE PAGES	

5016 MACARIO DR

Year	Uses	Source	
2017	ENRIQUE VILLEGAS	Cole Information Services	
2014	ENRIQUE VILLEGAS	Cole Information Services	
2009	ABEL LOPEZ	Cole Information Services	
2006	ZURITA Pablo	Haines Company, Inc.	Image pg. A1
	GONZALES Marta	Haines Company, Inc.	Image pg. A1
2004	KYM ROTHENBERGER	Cole Information Services	
2000	RINCON Jose	Haines Company, Inc.	
1999	ABEL LOPEZ	Cole Information Services	

5021 MACARIO DR

Year	Uses	Source	
2017	LAUREN VANLEEUWEN	Cole Information Services	
2014	JESUS VARELA	Cole Information Services	
2009	ROSALINDA VARELA	Cole Information Services	
2006	ESPINOZA Roberto	Haines Company, Inc.	Image pg. A1

FINDINGS

Year	Uses	Source	
2004	ROBERTO ESPINOZA	Cole Information Services	
2000	ESPINOZA Robert	Haines Company, Inc.	
1999	ROSALINDA VARELA	Cole Information Services	
1995	ESTELLA	PACIFIC BELL WHITE PAGES	
1994	ESPINOZA, JOSE L	Cole Information Services	

5025 MACARIO DR

Year	Uses	Source	
2014	MIGUEL DELEON	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	BARBA Roberto	Haines Company, Inc.	Image pg. A1
2004	ROBERTO BARBA	Cole Information Services	
2000	DOMINGUEZ Angel	Haines Company, Inc.	
1980	TREADWELL JOS JR	Pacific Telephone	

MALAGA DR

4991 MALAGA DR

Year	Uses	Source	
2017	ARNOLD MCKINNON	Cole Information Services	
2014	ARNOLD MCKINNON	Cole Information Services	
2009	ARNOLD MCKINNON	Cole Information Services	
2006	MCKINNON Arnold	Haines Company, Inc.	Image pg. A6
2004	ARNOLD MCKINNON	Cole Information Services	
2000	BARRITEAU C	Haines Company, Inc.	
1999	ARNOLD MCKINNON	Cole Information Services	
1985	JOHNSON THOS E	PACIFIC BELL WHITE PAGES	
	MOLINA GERI	PACIFIC BELL WHITE PAGES	
1980	CUARESMA GENE	Pacific Telephone	
1976	Mc Cumber SA	Luskey Brothers & Co., Inc.	
	Mc Cunn Drummond JElizabeth2900 196 Farel Ocsd	Luskey Brothers & Co., Inc.	
1970	Higgins Jas W Virginia 4991 Malaga Dr	John M. Ducy	

FINDINGS

4994 MALAGA DR

Year	Uses	Source	
2017	FREDDA BEAN	Cole Information Services	
2014	EMMA HAYS	Cole Information Services	
2009	ALFREDO LAZARO	Cole Information Services	
2006	LAZARO Alfredo	Haines Company, Inc.	Image pg. A6
2004	WALTER ARNETT	Cole Information Services	
2000	ARNETT Walter	Haines Company, Inc.	
1999	ALFREDO LAZARO	Cole Information Services	

4995 MALAGA DR

Year	Uses	Source	
2017	FREDRIC SMITTLE	Cole Information Services	
2014	FREDRIC SMITTLE	Cole Information Services	
2009	FREDRIC SMITTLE	Cole Information Services	
2006	SMITTLE Fredric L	Haines Company, Inc.	Image pg. A6
2004	FREDRIC SMITTLE	Cole Information Services	
2000	SMITTLE Fredric L	Haines Company, Inc.	
1999	FREDRIC SMITTLE	Cole Information Services	
1995	SMITTLE FREDRIC L	PACIFIC BELL WHITE PAGES	
1994	SMITTLE, FREDRIC L	Cole Information Services	
1991	Smittle Fredric L	PACIFIC BELL WHITE PAGES	
1985	SMITTLE FREDRIC L	PACIFIC BELL WHITE PAGES	
1980	SMITTLE FREDRIC L	Pacific Telephone	

4999 MALAGA DR

Year	Uses	Source	
2014	DIEGO SALVADOR	Cole Information Services	
2009	DIEGO SALVADOR	Cole Information Services	
2006	MANZO Adrian	Haines Company, Inc.	Image pg. A6
	SALVADOR Diego	Haines Company, Inc.	Image pg. A6
2000	GARCIA Jose	Haines Company, Inc.	
1999	DIEGO SALVADOR	Cole Information Services	
1970	Hay Norman E Leota 4999 Malaga Dr	John M. Ducy	

FINDINGS

MONICA CIR

600 MONICA CIR

Year	Uses	Source	
2014	ARELY CARRILLO	Cole Information Services	
2009	GERMAN TAPIA	Cole Information Services	
2006	BUDOFF Kerry	Haines Company, Inc.	Image pg. A7
2004	KERRY BUDOFF	Cole Information Services	
2000	BUDOFF Kerry	Haines Company, Inc.	
1999	GERMAN TAPIA	Cole Information Services	
1991	Stevens Robin	PACIFIC BELL WHITE PAGES	
	Stevens Rod	PACIFIC BELL WHITE PAGES	

605 MONICA CIR

Year	Uses	Source
2017	ADRIANA ASTORGA	Cole Information Services
2014	LUIS PEREZ	Cole Information Services
2009	FELIPE PEREZ	Cole Information Services
2004	FELIPE PEREZ	Cole Information Services
1999	FELIPE PEREZ	Cole Information Services

606 MONICA CIR

Year	Uses	Source
2014	MARTINEZ RUBEN	Cole Information Services
2009	CARLOS AMBRIZ	Cole Information Services
2004	JOSE CASTRO	Cole Information Services
1999	CARLOS AMBRIZ	Cole Information Services
1994	MCCALL, EDWARD	Cole Information Services

610 MONICA CIR

Year	Uses	Source
2014	JESUS VAZQUEZ	Cole Information Services
2009	FLORINA TAELE	Cole Information Services
2004	ENRIQUE OJEDA	Cole Information Services
1999	FLORINA TAELE	Cole Information Services
1994	RIDDLE, NORMAN S	Cole Information Services

FINDINGS

Year	Uses	Source
1991	Riddle Philip & Susan	PACIFIC BELL WHITE PAGES
	Riddle Nornman S	PACIFIC BELL WHITE PAGES

611 MONICA CIR

Year	Uses	Source
2017	DEBORAH LUGO	Cole Information Services
2014	HAI DANG	Cole Information Services
2004	SAMUEL LUCAS	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services

614 MONICA CIR

Year	Uses	Source
2017	MATEO LEON	Cole Information Services
2009	ROBERTO SALINAS	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	ROBERTO SALINAS	Cole Information Services

615 MONICA CIR

Year	Uses	Source
2017	DANIELLE OCHOA	Cole Information Services
2009	LIUDMILA VITKOUSKAYA	Cole Information Services
2004	ADRIAN ROMERO	Cole Information Services
1999	LIUDMILA VITKOUSKAYA	Cole Information Services

616 MONICA CIR

Year	Uses	Source
2017	ADAM BULLOUGH	Cole Information Services
2014	ADAM BULLOUGH	Cole Information Services
2009	ADAM BULLOUGH	Cole Information Services
2004	DANIEL MARTIN	Cole Information Services
1999	ADAM BULLOUGH	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	WASHINGTON, ALICIA	Cole Information Services

FINDINGS

617 MONICA CIR

Year	*Uses*	*Source*
2017	RODRICK FOY	Cole Information Services
2014	RODRICK FOY	Cole Information Services
2009	EDWARD FOY	Cole Information Services
2004	EDWARD FOY	Cole Information Services
1999	EDWARD FOY	Cole Information Services

618 MONICA CIR

Year	*Uses*	*Source*
2017	MICHELLE DITZLER	Cole Information Services
2014	T MALDONADO	Cole Information Services
2009	AUKUSITINO MILO	Cole Information Services
2004	LISI USINI	Cole Information Services
1999	AUKUSITINO MILO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

619 MONICA CIR

Year	*Uses*	*Source*
2017	AGNES TAELE	Cole Information Services
2014	JIMMY TAELE	Cole Information Services
2004	SHERRY JOHNSON	Cole Information Services
1995	CEJA ALEJANDRO	PACIFIC BELL WHITE PAGES

620 MONICA CIR

Year	*Uses*	*Source*
2017	PERCY HOUSE	Cole Information Services
2014	PERCY HOUSE	Cole Information Services
2009	PERCY HOUSE	Cole Information Services
2004	PERCY HOUSE	Cole Information Services
1999	PERCY HOUSE	Cole Information Services
1994	HOUSE, PERCY	Cole Information Services

621 MONICA CIR

Year	*Uses*	*Source*
2017	ARMANDO MENA	Cole Information Services

Year	Uses	Source
2014	ARMANDO MENA	Cole Information Services
2009	ARMANDO MENA	Cole Information Services
2004	KRISTINA MENA	Cole Information Services
1999	ARMANDO MENA	Cole Information Services

ROBT 4778 CLAIRE DR

2 ROBT 4778 CLAIRE DR

Year	Uses	Source
1995	PINGER THOS E	PACIFIC BELL WHITE PAGES

ROJA DR

510 ROJA DR

Year	Uses	Source	
2009	MICHAEL MOLEN	Cole Information Services	
2006	MOLEN Michael W	Haines Company, Inc.	Image pg. A8
2004	MICHAEL MOLEN	Cole Information Services	
2000	MOLEN Michael W	Haines Company, Inc.	
1999	MICHAEL MOLEN	Cole Information Services	
1994	MOLEN, MICHAEL W	Cole Information Services	
1991	Molen Michael W	PACIFIC BELL WHITE PAGES	
1985	MOLEN MICHAEL W	PACIFIC BELL WHITE PAGES	
1980	MOLEN MICHAEL W	Pacific Telephone	
1976	Molen Cindy	Luskey Brothers & Co., Inc.	
	Molen Michael W Miyoko	Luskey Brothers & Co., Inc.	

514 ROJA DR

Year	Uses	Source	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	MOLEN Michael W	Haines Company, Inc.	Image pg. A8
2004	JAMES MOLEN	Cole Information Services	
2000	MOLEN Michael W	Haines Company, Inc.	
1985	CAULEY SANDRA F	PACIFIC BELL WHITE PAGES	
1980	PREFONTAINE RAYMOND	Pacific Telephone	

FINDINGS

Year	Uses	Source	
1970	Mosser Walter J Maybelle 514 Roja Dr	John M. Ducy	
	Mosser Walter J Maybelie 514 N Roja Dr	John M. Ducy	

518 ROJA DR

Year	Uses	Source	
2009	ANTONIA AYALA	Cole Information Services	
2006	HOWARD Steven	Haines Company, Inc.	Image pg. A8
2004	STEVEN HOWARD	Cole Information Services	
2000	HOWARD Helen	Haines Company, Inc.	
1999	ANTONIA AYALA	Cole Information Services	
1970	McInerney Yaemni Fran 518 Roja Dr	John M. Ducy	

521 ROJA DR

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

522 ROJA DR

Year	Uses	Source	
2009	JAMES NOWLIN	Cole Information Services	
2006	MACIAS Javier	Haines Company, Inc.	Image pg. A8
2004	CLAUDIO PRECIADO	Cole Information Services	
2000	CONNELLY John	Haines Company, Inc.	
1999	JAMES NOWLIN	Cole Information Services	
1976	Greene Robert B Virginia	Luskey Brothers & Co., Inc.	

523 ROJA DR

Year	Uses	Source	
2009	ENRIQUE MARTINEZ	Cole Information Services	
2006	MARTINEZ Teresa	Haines Company, Inc.	Image pg. A8
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	DONALDSON Charlton	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	ENRIQUE MARTINEZ	Cole Information Services	
1985	SIMS MICHELLE	PACIFIC BELL WHITE PAGES	
	SIMS MORRIS W	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source	
1980	SIMS MORRIS W	Pacific Telephone	
1970	Brent Jos M Lola 523 N Roja Dr	John M. Ducy	

526 ROJA DR

Year	Uses	Source	
2009	YOSHIKO HINER	Cole Information Services	
2006	HINER Donald	Haines Company, Inc.	Image pg. A8
2004	DONALD HINER	Cole Information Services	
2000	HINER Donald	Haines Company, Inc.	
1999	YOSHIKO HINER	Cole Information Services	
1970	Hiner Donald M Yosiko 526 N Roja Dr	John M. Ducy	

527 ROJA DR

Year	Uses	Source	
2009	STEPHANIE CAMPBELL	Cole Information Services	
2006	MEZA Connie	Haines Company, Inc.	Image pg. A8
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	MEZA Connie	Haines Company, Inc.	
1999	STEPHANIE CAMPBELL	Cole Information Services	
1976	Halligan Larry D Diana165 Tierra Blanca @Oceanside@	Luskey Brothers & Co., Inc.	
	Halliday Stephen Linda	Luskey Brothers & Co., Inc.	
1970	Luedtke Dale C Constence 527 Roja Dr	John M. Ducy	

530 ROJA DR

Year	Uses	Source	
2009	PETER RIVERA	Cole Information Services	
2006	CAMIRO Servando	Haines Company, Inc.	Image pg. A8
2004	SERVANDO CAMIRO	Cole Information Services	
2000	SANDIFER Penelope	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	PETER RIVERA	Cole Information Services	
1991	Riley R	PACIFIC BELL WHITE PAGES	
	Riley Patricia	PACIFIC BELL WHITE PAGES	

Year	Uses	Source	
1991	Riley Patton Patten Properties rl est	PACIFIC BELL WHITE PAGES	
	Riley Peggy Ryan	PACIFIC BELL WHITE PAGES	
	Riley Patrick T	PACIFIC BELL WHITE PAGES	
1970	Brown Paul Elizabeth 530 Roja Dr	John M. Ducy	
	Brown Paul E Elizabeth 530 N Roja Dr	John M. Ducy	

531 ROJA DR

Year	Uses	Source	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	MCDONALD W	Haines Company, Inc.	Image pg. A8
2004	WILLIAM MCDONALD	Cole Information Services	
2000	MCDONALD William	Haines Company, Inc.	
1980	ROBINSON JEFFREY L	Pacific Telephone	
	ROBINSON M M GU SGT	Pacific Telephone	
1976	Hamady Edward Mary	Luskey Brothers & Co., Inc.	
1970	Hamady Edward Mary 531 N Roja Dr	John M. Ducy	

534 ROJA DR

Year	Uses	Source	
2009	AARON ROBINSON	Cole Information Services	
2006	ROBINSON Aaron	Haines Company, Inc.	Image pg. A8
2004	AARON ROBINSON	Cole Information Services	
2000	ROBINSON Marion	Haines Company, Inc.	
1999	AARON ROBINSON	Cole Information Services	
1970	Showalter Cooper Kiyoko 534 N Roja Dr	John M. Ducy	

538 ROJA DR

Year	Uses	Source	
2009	HENRY BEJARANO	Cole Information Services	
2006	BEJARANO Henry A	Haines Company, Inc.	Image pg. A8
2004	HENRY BEJARANO	Cole Information Services	
2000	BEJARANO Sara	Haines Company, Inc.	
	BEJARANO Henry A	Haines Company, Inc.	
1999	HENRY BEJARANO	Cole Information Services	

FINDINGS

Year	Uses	Source	
1995	BEJARANO ANTHONY	PACIFIC BELL WHITE PAGES	
	BEJARANO ANTHONY	PACIFIC BELL WHITE PAGES	
1994	BEJARANO, HENRY A	Cole Information Services	
1991	Belma Kevin P	PACIFIC BELL WHITE PAGES	
	Belma Jude	PACIFIC BELL WHITE PAGES	
	Belma B	PACIFIC BELL WHITE PAGES	
	Belarano Sara	PACIFIC BELL WHITE PAGES	
	Belarano Henry A	PACIFIC BELL WHITE PAGES	
1985	BE ARANO SARA	PACIFIC BELL WHITE PAGES	
	BE ARANO D M	PACIFIC BELL WHITE PAGES	
	BE ARANO HENRY A	PACIFIC BELL WHITE PAGES	
1980	BEJARANO HENRY A	Pacific Telephone	
1976	Bejarano Henry A Sara	Luskey Brothers & Co., Inc.	
1970	Bejarano Henry A Sara 538 N Roja Dr	John M. Ducy	

542 ROJA DR

Year	Uses	Source	
2009	SIO PASENE	Cole Information Services	
2006	PASENE Sio	Haines Company, Inc.	Image pg. A8
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	PASENE Sio	Haines Company, Inc.	
1999	SIO PASENE	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1980	PASENE SIO & DORIS	Pacific Telephone	
1976	Si lva Edw ard Janet	Luskey Brothers & Co., Inc.	
1970	Wilson Eugene F Margaret 542 N Roja Dr	John M. Ducy	

585 ROJA DR

Year	Uses	Source	
2009	ANTHONY GARCIA	Cole Information Services	
2006	HERNANDEZ Jose	Haines Company, Inc.	Image pg. A8
2004	JOSE HERNANDEZ	Cole Information Services	
2000	HERNANDEZ Jose	Haines Company, Inc.	
1999	ANTHONY GARCIA	Cole Information Services	

FINDINGS

Year	Uses	Source	
1999	OCCUPANT UNKNOWN	Cole Information Services	
1976	Russell Bernard ADorothy6550 14a Ponto Dr @Carlsbad@	Luskey Brothers & Co., Inc.	
	Russell Anna	Luskey Brothers & Co., Inc.	

587 ROJA DR

Year	Uses	Source	
2009	DOROTEO GIL	Cole Information Services	
2006	HILL D	Haines Company, Inc.	Image pg. A8
	GIL Doroteo	Haines Company, Inc.	Image pg. A8
	MEDINA Celia C	Haines Company, Inc.	Image pg. A8
2004	CELIA MEDINA	Cole Information Services	
2000	FIGUEROA Jesus J	Haines Company, Inc.	
1999	DOROTEO GIL	Cole Information Services	
1995	FRANK	PACIFIC BELL WHITE PAGES	
1994	FIGUEROA, JESUS J	Cole Information Services	

589 ROJA DR

Year	Uses	Source	
2006	SCHMIDT Melissa	Haines Company, Inc.	Image pg. A8
	LEON Martha	Haines Company, Inc.	Image pg. A8
2004	MARIA GONZALES	Cole Information Services	
2000	WILLIAMS Monica L	Haines Company, Inc.	
	LITTLE Willie	Haines Company, Inc.	
1985	CAHANDING NICK & FRANCES	PACIFIC BELL WHITE PAGES	
1980	KOFFRON LOUIS A	Pacific Telephone	

ROJA ST

510 ROJA ST

Year	Uses	Source
2017	MICHAEL MOLEN	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

514 ROJA ST

Year	Uses	Source
2014	RICHARD MATZKE	Cole Information Services

518 ROJA ST

Year	Uses	Source
2017	SILVESTRE CAMARGO	Cole Information Services
2014	SILVESTRE CAMARGO	Cole Information Services

522 ROJA ST

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services

523 ROJA ST

Year	Uses	Source
2017	ENRIQUE MARTINEZ	Cole Information Services
2014	ENRIQUE MARTINEZ	Cole Information Services

526 ROJA ST

Year	Uses	Source
2017	YOSHIKO HINER	Cole Information Services
2014	YOSHIKO HINER	Cole Information Services

527 ROJA ST

Year	Uses	Source
2017	DALE CAMPBELL	Cole Information Services
2014	PATTI CAMPBELL	Cole Information Services

530 ROJA ST

Year	Uses	Source
2017	PAUL HARRINGTON	Cole Information Services
2014	PAUL HARRINGTON	Cole Information Services

531 ROJA ST

Year	Uses	Source
2017	ODELL BROWN	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

534 ROJA ST

Year	Uses	Source
2017	NELDA THOMAS	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services

538 ROJA ST

Year	Uses	Source
2017	HENRY BEJARANO	Cole Information Services
2014	HENRY BEJARANO	Cole Information Services

542 ROJA ST

Year	Uses	Source
2017	SIO PASENE	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services

585 ROJA ST

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services

587 ROJA ST

Year	Uses	Source
2017	DOROTEO GIL	Cole Information Services
2014	DOROTEO GIL	Cole Information Services
1976	Crain Charles Leola	Luskey Brothers & Co., Inc.

589 ROJA ST

Year	Uses	Source
2017	EDUARDO CARRANZA	Cole Information Services
2014	AMY SANCHEZ	Cole Information Services

ROUA DR

523 ROUA DR

Year	Uses	Source
1991	Sims Morris W	PACIFIC BELL WHITE PAGES

FINDINGS

SOL BLVD

567 SOL BLVD

Year	Uses	Source	
1995	Redington Group P O Box	PACIFIC BELL WHITE PAGES	

STEPHANIE LN

4848 STEPHANIE LN

Year	Uses	Source	
1985	CHILDRESS THOS E	PACIFIC BELL WHITE PAGES	

STEPHANIE PL

4775 STEPHANIE PL

Year	Uses	Source	
2017	JOSE SETO	Cole Information Services	
2014	ANTHONY TAIMALIE	Cole Information Services	
2009	JOSE SETO	Cole Information Services	
2006	SETO Jose	Haines Company, Inc.	Image pg. A9
2004	JOSE SETO	Cole Information Services	
2000	HOFF Eugene	Haines Company, Inc.	
1999	JOSE SETO	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1976	Hoff Michael W	Luskey Brothers & Co., Inc.	

4777 STEPHANIE PL

Year	Uses	Source	
2017	DARYL WASANO	Cole Information Services	
2014	DARYL WASANO	Cole Information Services	
2009	WAYNE WASANO	Cole Information Services	
2006	WASANO Verna	Haines Company, Inc.	Image pg. A9
2004	EDWIN WASANO	Cole Information Services	
	NEVADA RMS & ASSOCS	Cole Information Services	
1999	WAYNE WASANO	Cole Information Services	

FINDINGS

4780 STEPHANIE PL

Year	Uses	Source	
2017	MITCHELL MAYNARD	Cole Information Services	
2014	FAITH MILLER	Cole Information Services	
2009	MITCHELL MAYNARD	Cole Information Services	
2004	ISABEL MAYNARD	Cole Information Services	
1999	MITCHELL MAYNARD	Cole Information Services	
1994	MAYNARD, MITCH	Cole Information Services	

4781 STEPHANIE PL

Year	Uses	Source	
2014	LINDA BOYD	Cole Information Services	
2009	CHARLIE BOYD	Cole Information Services	
2006	BOYD Linda	Haines Company, Inc.	Image pg. A9
	KRIGBAUM Joe	Haines Company, Inc.	Image pg. A9
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	BOYD Linda	Haines Company, Inc.	
	KRIGBAUM Joe	Haines Company, Inc.	
1999	CHARLIE BOYD	Cole Information Services	
1995	WHITNEY AS	PACIFIC BELL WHITE PAGES	
1991	Whitney RD	PACIFIC BELL WHITE PAGES	
1985	NEMETH SARAH K	PACIFIC BELL WHITE PAGES	
	NEMETH JOHN W	PACIFIC BELL WHITE PAGES	
1980	NEMETH JOHN W	Pacific Telephone	
1976	Neineth John W Sarah	Luskey Brothers & Co., Inc.	

4784 STEPHANIE PL

Year	Uses	Source
2017	ERIC DIAZ	Cole Information Services
2014	RALPH LINDEN	Cole Information Services
2009	RALPH LINDEN	Cole Information Services
2004	WILLIAM HEPLER	Cole Information Services
1999	RALPH LINDEN	Cole Information Services

FINDINGS

4785 STEPHANIE PL

Year	Uses	Source	
2017	JORGE GARCIA	Cole Information Services	
2014	MANUEL MADRID	Cole Information Services	
2009	RODNEY MCGOUGH	Cole Information Services	
2006	CREW James	Haines Company, Inc.	Image pg. A9
2000	ARANGO Geronimo	Haines Company, Inc.	
1999	RODNEY MCGOUGH	Cole Information Services	
1976	Blodgett John J Sharrol	Luskey Brothers & Co., Inc.	

4790 STEPHANIE PL

Year	Uses	Source	
2017	NUBIA CERDA	Cole Information Services	
2014	NUBIA CERDA	Cole Information Services	
2009	OCCUPANT UNKNOWN	Cole Information Services	
2006	CERDA Nubia	Haines Company, Inc.	Image pg. A9
2004	IGNACIO PRADO	Cole Information Services	
2000	PRADO Ignacio	Haines Company, Inc.	
1985	BAR AS ISIDRO	PACIFIC BELL WHITE PAGES	

4791 STEPHANIE PL

Year	Uses	Source	
2017	VICTOR ABON	Cole Information Services	
2014	VICTOR ABON	Cole Information Services	
2009	VICTOR ABON	Cole Information Services	
2006	ABON Victor	Haines Company, Inc.	Image pg. A9
2004	VICTOR ABON	Cole Information Services	
2000	ABON Victor	Haines Company, Inc.	
1999	VICTOR ABON	Cole Information Services	
1985	ABON VICTOR	PACIFIC BELL WHITE PAGES	

4795 STEPHANIE PL

Year	Uses	Source
2014	MIGUEL SNAER	Cole Information Services
2009	WENEFREDA SNAER	Cole Information Services

FINDINGS

Year	Uses	Source	
2006	SNAER Robert	Haines Company, Inc.	Image pg. A9
2004	ROBERT SNAER	Cole Information Services	
2000	SNAER Robert	Haines Company, Inc.	
1999	WENEFREDA SNAER	Cole Information Services	
1991	Snaer Robert	PACIFIC BELL WHITE PAGES	
1985	PANADO ALBERTO	PACIFIC BELL WHITE PAGES	
1980	SANCHEZ ROBT B	Pacific Telephone	
1976	Sanbhez Robt B Cecilia	Luskey Brothers & Co., Inc.	

4796 STEPHANIE PL

Year	Uses	Source	
2017	ADRIANNE BUCHTA	Cole Information Services	
2014	JUAN SANCHEZ	Cole Information Services	
2009	ANGELICA SANCHEZ	Cole Information Services	
2006	JIMENEZ Alejandro	Haines Company, Inc.	Image pg. A9
2004	ALEJANDRO PEREZ	Cole Information Services	
1999	ANGELICA SANCHEZ	Cole Information Services	
1980	SUARSE T A	Pacific Telephone	

4798 STEPHANIE PL

Year	Uses	Source	
2014	MARIA DIAZ	Cole Information Services	
2009	MARIA DIAZ	Cole Information Services	
2006	VILLA Jose	Haines Company, Inc.	Image pg. A9
	DIAZ Maria	Haines Company, Inc.	Image pg. A9
2004	JOSE VILLA	Cole Information Services	
2000	COKE Devon	Haines Company, Inc.	
	HOUGH Kenneth	Haines Company, Inc.	
1999	OCCUPANT UNKNOWN	Cole Information Services	
	MARIA DIAZ	Cole Information Services	
1976	Lining Vidal V Mary Joan	Luskey Brothers & Co., Inc.	

FINDINGS

4799 STEPHANIE PL

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A9
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	XXXX	Haines Company, Inc.	
1980	SMITH MICHAEL S	Pacific Telephone	

4800 STEPHANIE PL

Year	Uses	Source	
2017	SERGIU CAZACU	Cole Information Services	
2014	BENJAMIN GONZALES	Cole Information Services	
2009	MARTIN PEREZ	Cole Information Services	
2006	PEREZ Martin	Haines Company, Inc.	Image pg. A9
2004	JONATHAN PURCHASE	Cole Information Services	
2000	FAULKNER Catherine	Haines Company, Inc.	
1999	MARTIN PEREZ	Cole Information Services	
1995	BRUNO A	PACIFIC BELL WHITE PAGES	
1991	Volkov Jim	PACIFIC BELL WHITE PAGES	
1985	WERNER RAYMOND B	PACIFIC BELL WHITE PAGES	
1980	WERNER RAYMOND B	Pacific Telephone	

4801 STEPHANIE PL

Year	Uses	Source	
2017	MICHAEL FRY	Cole Information Services	
2014	MICHAEL FRY	Cole Information Services	
2009	MICHAEL FRY	Cole Information Services	
2006	FRY Michael	Haines Company, Inc.	Image pg. A9
2004	MICHAEL FRY	Cole Information Services	
2000	FRY Michael	Haines Company, Inc.	
1999	MICHAEL FRY	Cole Information Services	
1985	MC KNNON ARNOLD E SR	PACIFIC BELL WHITE PAGES	
1980	MCKINNON ARNOLD E	Pacific Telephone	

FINDINGS

4815 STEPHANIE PL

Year	Uses	Source	
2017	AQUILINA ROSAS	Cole Information Services	
2014	AQUILINA ROSAS	Cole Information Services	
2009	EUFRACIA SOLANO	Cole Information Services	
2006	ROSAS Aquilina	Haines Company, Inc.	Image pg. A9
	MARTINEZ Fernando	Haines Company, Inc.	Image pg. A9
	CARBAJAL Jorge	Haines Company, Inc.	Image pg. A9
2004	FERNANDO MARTINEZ	Cole Information Services	
2000	JENKINS M Nmicky	Haines Company, Inc.	
1999	EUFRACIA SOLANO	Cole Information Services	
1995	JOHNNY E	PACIFIC BELL WHITE PAGES	
1994	HARRIS, JAMES	Cole Information Services	
1991	Jenkins M N Micky	PACIFIC BELL WHITE PAGES	
1985	JENKINS M N-MICKY	PACIFIC BELL WHITE PAGES	
1980	JENKINS M N-MICKY	Pacific Telephone	
1976	Garble Fredrick C	Luskey Brothers & Co., Inc.	

4816 STEPHANIE PL

Year	Uses	Source	
2017	DIYU BIRD	Cole Information Services	
2014	DIYU BIRD	Cole Information Services	
2009	DIYU BIRD	Cole Information Services	
2006	BIRD Tokiko	Haines Company, Inc.	Image pg. A9
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	BIRD Jerry	Haines Company, Inc.	
1999	DIYU BIRD	Cole Information Services	

4824 STEPHANIE PL

Year	Uses	Source	
2017	EDWARD NAVARRO	Cole Information Services	
2014	EDENELL NAVARRO	Cole Information Services	
2006	HOLDER Margaret	Haines Company, Inc.	Image pg. A9
2004	MARGARET HOLDER	Cole Information Services	
2000	HOLDER Margaret	Haines Company, Inc.	

FINDINGS

4825 STEPHANIE PL

Year	Uses	Source	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	CHANG KIM	Cole Information Services	
2006	RODRIGUEZ Alfredo	Haines Company, Inc.	Image pg. A9
2004	GUSTAVO RODRIGUEZ	Cole Information Services	
2000	RODRIGUEZ Alfredo	Haines Company, Inc.	
1999	CHANG KIM	Cole Information Services	
1995	RODR	PACIFIC BELL WHITE PAGES	
1994	RODRIGUEZ, ALFREDO	Cole Information Services	

4836 STEPHANIE PL

Year	Uses	Source	
2017	BEATRIZ LINARES	Cole Information Services	
2014	BEATRIZ LINARES	Cole Information Services	
2009	ANGEL LINARES	Cole Information Services	
2006	LINARES Angel	Haines Company, Inc.	Image pg. A9
	COLORES Irene	Haines Company, Inc.	Image pg. A9
	MARTINEZ Gaspar	Haines Company, Inc.	Image pg. A9
2004	GASPAR MARTINEZ	Cole Information Services	
2000	LINARES Angel	Haines Company, Inc.	
1999	ANGEL LINARES	Cole Information Services	
1985	VESS CLARENCE H SGT MAJ RET	PACIFIC BELL WHITE PAGES	
1980	VESS CLARENCE H SGT MAJ RET	Pacific Telephone	
1976	Vessell Bill Palomar Airport Rd @Carlsbad@	Luskey Brothers & Co., Inc.	
	Vess Clarence H Elaine	Luskey Brothers & Co., Inc.	

4837 STEPHANIE PL

Year	Uses	Source	
2017	FRANK HARO	Cole Information Services	
2014	FRANK HARO	Cole Information Services	
2009	FRANK HARO	Cole Information Services	
2006	HARO Frank	Haines Company, Inc.	Image pg. A9
2004	FRANK HARO	Cole Information Services	
2000	HARO Frank	Haines Company, Inc.	

FINDINGS

Year	Uses	Source	
1999	FRANK HARO	Cole Information Services	
1995	HARO CONSUELO	PACIFIC BELL WHITE PAGES	
1994	HARO, FRANK	Cole Information Services	
1985	HARO FRANK	PACIFIC BELL WHITE PAGES	
1970	White Robt L Jessie 4837 Stephanie Pl	John M. Ducy	

4840 STEPHANIE PL

Year	Uses	Source	
2017	JULIO ARDON	Cole Information Services	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	IRENE COLORES	Cole Information Services	
2006	ARDON Maria	Haines Company, Inc.	Image pg. A9
2004	JULIO ARDON	Cole Information Services	
2000	ARDON Julio	Haines Company, Inc.	
1999	IRENE COLORES	Cole Information Services	
1970	Ardon Julio C Maria 4840 Stephanie Pl	John M. Ducy	

4841 STEPHANIE PL

Year	Uses	Source	
2017	CELERINO MONTESINOS	Cole Information Services	
2014	CELERINO MONTESINOS	Cole Information Services	
2009	CELERINO MONTESINOS	Cole Information Services	
2006	MONTESINOS Celerino	Haines Company, Inc.	Image pg. A9
2004	CELERINO MONTESINOS	Cole Information Services	
2000	MASTERSON Keith	Haines Company, Inc.	
1999	CELERINO MONTESINOS	Cole Information Services	
1985	MASTERSON KEITH & IRENE	PACIFIC BELL WHITE PAGES	
1970	Angelo Arthur Jeannine 4841 Stephanie Pl	John M. Ducy	

4844 STEPHANIE PL

Year	Uses	Source	
2014	CHERYL TRAMMEL	Cole Information Services	
2009	BRYNT NEBLETT	Cole Information Services	
2006	NEBLETT Kb	Haines Company, Inc.	Image pg. A9

FINDINGS

Year	Uses	Source	
2004	KAYLA NEBLETT	Cole Information Services	
	KRISTA HALE	Cole Information Services	
2000	NEBLETT Kim	Haines Company, Inc.	
	NEBLETT K B	Haines Company, Inc.	
1999	BRYNT NEBLETT	Cole Information Services	
1991	Neblett Kim	PACIFIC BELL WHITE PAGES	
	Neblett K B	PACIFIC BELL WHITE PAGES	
1985	NEBLETT K B	PACIFIC BELL WHITE PAGES	
	NEBLETT KIM	PACIFIC BELL WHITE PAGES	
1980	NEBLETT K B	Pacific Telephone	
1976	Neblett Carl Charlotte	Luskey Brothers & Co., Inc.	

4845 STEPHANIE PL

Year	Uses	Source	
2017	AGUSTO IGNACIO	Cole Information Services	
2014	AGUSTO IGNACIO	Cole Information Services	
2009	AGUSTO IGNACIO	Cole Information Services	
2006	IGNACIO Agusto	Haines Company, Inc.	Image pg. A9
2004	AGUSTO IGNACIO	Cole Information Services	
	NORTH COUNTY CLEANERS	Cole Information Services	
2000	IGNACIO Agusto	Haines Company, Inc.	
1999	AGUSTO IGNACIO	Cole Information Services	
1994	IGNACIO, AGUSTO	Cole Information Services	
1991	Ignacio L	PACIFIC BELL WHITE PAGES	
	Ignacio Kathlyn	PACIFIC BELL WHITE PAGES	
	Ignacio J	PACIFIC BELL WHITE PAGES	
	Ignacio Art	PACIFIC BELL WHITE PAGES	
	Ignacio Agusto	PACIFIC BELL WHITE PAGES	
1985	LEFEVER TOMMY	PACIFIC BELL WHITE PAGES	
1980	IGNACIO AUGUSTO S	Pacific Telephone	
1976	Ignacio Augusto S Julie	Luskey Brothers & Co., Inc.	
1970	Holiw ski Frank 0 Thelma 4845 Stephanie Pl	John M. Ducy	

FINDINGS

4848 STEPHANIE PL

Year	Uses	Source	
2014	OCCUPANT UNKNOWN	Cole Information Services	
2009	SERGIO DIAZ	Cole Information Services	
2006	CHILDRESS Thos E	Haines Company, Inc.	Image pg. A9
2004	THOMAS CHILDRESS	Cole Information Services	
2000	CHILDRESS Thos E	Haines Company, Inc.	
1999	SERGIO DIAZ	Cole Information Services	
1995	CHILDRESS GR	PACIFIC BELL WHITE PAGES	
1994	CHILDRESS, THOMAS E	Cole Information Services	
1991	Childress Thos E	PACIFIC BELL WHITE PAGES	
	Childress Uvalene	PACIFIC BELL WHITE PAGES	
	Childress V	PACIFIC BELL WHITE PAGES	
	Childrey Joseph	PACIFIC BELL WHITE PAGES	
	Childs A L POBox 425 Sol B	PACIFIC BELL WHITE PAGES	
1980	CHILDRESS SCOTT T	Pacific Telephone	
	CHILDRESS THOS E	Pacific Telephone	
1976	Childress Thos E Patsy	Luskey Brothers & Co., Inc.	
1970	Childress Thomas E Patsy 4848 Stephanie Pl	John M. Ducy	
	r Childress Jeannie 4848 Stephanie Pl	John M. Ducy	

4849 STEPHANIE PL

Year	Uses	Source
2017	SETH DAVIES	Cole Information Services
2014	RICARDO VENTURA	Cole Information Services
2009	CARL SPRENGELMEYER	Cole Information Services
2004	CARL SPRENGELMEYER	Cole Information Services
1999	CARL SPRENGELMEYER	Cole Information Services
1994	SPRENGELMEYER, C L	Cole Information Services
1985	SPRENGELMEYER FRANCES	PACIFIC BELL WHITE PAGES
1980	SPRENGELMEYER CARL L	Pacific Telephone
1970	Sprengelmeyer Carl L Frances 4849 Stephanie Pl	John M. Ducy

FINDINGS

4852 STEPHANIE PL

Year	Uses	Source	
2017	WALTER BROWN	Cole Information Services	
2014	WALTER BROWN	Cole Information Services	
2009	WALTER BROWN	Cole Information Services	
2006	BROWN Walter H	Haines Company, Inc.	Image pg. A9
2004	WALTER BROWN	Cole Information Services	
2000	BROWN Walter H	Haines Company, Inc.	
1999	WALTER BROWN	Cole Information Services	
1995	BROWN TITUS J	PACIFIC BELL WHITE PAGES	
1994	BROWN, WALTER H	Cole Information Services	
1991	Brown Waiter H	PACIFIC BELL WHITE PAGES	
1985	BROWN WALTER H	PACIFIC BELL WHITE PAGES	
1980	BROWN WALTER H	Pacific Telephone	
	BROWN BOB	Pacific Telephone	
1976	Brown Walter H	Luskey Brothers & Co., Inc.	
1970	Wood William A Betty 4852 Stephanie Pl	John M. Ducy	

4853 STEPHANIE PL

Year	Uses	Source	
2017	GEORGE DANIEL	Cole Information Services	
2014	GEORGE DANIEL	Cole Information Services	
2009	GREGORY DANIEL	Cole Information Services	
2006	DANIEL Geo Jr	Haines Company, Inc.	Image pg. A9
2004	GEORGE DANIEL	Cole Information Services	
2000	DANIEL Geo Jr	Haines Company, Inc.	
1999	GREGORY DANIEL	Cole Information Services	
1995	DOUGLAS & SUSAN	PACIFIC BELL WHITE PAGES	
1994	DANIEL, GEORGE JR	Cole Information Services	
1991	Daniel Geo Jr	PACIFIC BELL WHITE PAGES	
	Daniel Hal & Molly	PACIFIC BELL WHITE PAGES	
	Daniel Harry M	PACIFIC BELL WHITE PAGES	
1985	DANIEL GEO JR	PACIFIC BELL WHITE PAGES	
1980	DANIEL GEO JR	Pacific Telephone	

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Year	Uses	Source	
1976	Daniel George Jr Rosie	Luskey Brothers & Co., Inc.	
1970	Daniel Jr George Rosie 4853 Stephanie Pl	John M. Ducy	

4861 STEPHANIE PL

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

4907 STEPHANIE PL

Year	Uses	Source	
2017	VINCE BROOKS	Cole Information Services	
2014	VINCE BROOKS	Cole Information Services	
2009	VINCE BROOKS	Cole Information Services	
2006	BROOKS Leslie Jr	Haines Company, Inc.	Image pg. A9
2004	OCCUPANT UNKNOWN	Cole Information Services	
2000	BROOKS Leslie Jr	Haines Company, Inc.	
1999	VINCE BROOKS	Cole Information Services	
1995	BROOKS LESLIE JR	PACIFIC BELL WHITE PAGES	
1994	BROOKS, LESLIE	Cole Information Services	
1991	Brooks Leslie Jr	PACIFIC BELL WHITE PAGES	
1985	BROOKS LESLIE JR	PACIFIC BELL WHITE PAGES	
1980	BROOKS LESLIE JR	Pacific Telephone	
1976	Brook Es Leslie Jr	Luskey Brothers & Co., Inc.	
1970	Brooks Jr Leslie 4907 Stephanie Pl	John M. Ducy	

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1 4849 STEPHANIE PI	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2 ROBT 4778 CLAIRE DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4770 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4771 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4772 CLAIRE DR	2017, 2014, 2009, 2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4775 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4775 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4775 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4776 CLAIRE DR	2017, 2014, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4777 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4777 STEPHANIE PL	2017, 2014, 2009, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4777 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4778 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4778 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4780 CLAIRE DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4780 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4780 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4781 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4781 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4781 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4781 STEPHANIE PL	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4784 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4785 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4785 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4785 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4785 STEPHANIE PL	2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4786 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4786 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4787 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4787 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4788 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4788 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4790 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4790 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4790 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4790 STEPHANIE PL	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4791 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4791 CLAIRE DR	2006, 2000, 1999, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4791 CLAIRE ST	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4791 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4791 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4795 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4795 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4795 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4795 STEPHANIE PL	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4796 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

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Address Researched	Address Not Identified in Research Source
4796 CLAIRE DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4796 STEPHANIE PL	2017, 2014, 2009, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4796 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4798 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4798 CLAIRE DR	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4798 STEPHANIE PL	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4798 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4799 CLAIRE DR	2017, 2014, 2009, 2006, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4799 CLAIRE DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4799 CLAIRE OR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4799 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4799 STEPHANIE PL	2017, 2014, 2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4800 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4800 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4800 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4800 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4801 CLAIRE DR	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4801 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4801 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4801 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4815 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4815 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4815 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4815 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4816 CLAIRE DR	2017, 2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4816 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4816 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4816 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4824 STEPHANIE PL	2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4824 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4825 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4825 CLAIRE DR	2017, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

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Address Researched	Address Not Identified in Research Source
4825 STEPHANIE PL	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4825 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4826 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4826 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4830 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4830 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4831 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4831 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4835 CLAIRE DR	2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4835 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4836 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4836 CLAIRE DR	2006, 2004, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4836 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4836 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4837 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4837 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4840 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4840 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4840 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4840 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4841 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4841 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4841 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4841 STEPHANIE PL	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4844 STEPHANIE PL	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4844 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4845 CLAIRE DR	2017, 2014, 2009, 2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4845 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4845 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4846 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4846 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4848 STEPHANIE LN	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4848 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1985, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4848 STEPHANIE PL	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4849 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4849 STEPHANIE PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4850 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4850 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4851 CLAIRE DR	2006, 2000, 1999, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4851 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4852 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4852 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4853 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4853 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4861 STEPHANIE PL	2017, 2014, 2009, 2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4900 CLAIRE DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4900 CLAIRE DR	2017, 2014, 2009, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4901 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4901 CLAIRE DR	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4907 STEPHANIE PL	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4907 STEPHANIE PL	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4912 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4912 CLAIRE DR	2006, 2000, 1999, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4915 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4915 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4920 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4920 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4921 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4921 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4925 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4925 CLAIRE DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4926 CLAIRE DR	2006, 2004, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4926 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4928 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4928 CLAIRE DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4931 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4931 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4932 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4932 CLAIRE DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4935 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4935 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4936 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4936 CLAIRE DR	2009, 2006, 2000, 1999, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4939 CLAIRE DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4939 CLAIRE DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4991 MALAGA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4991 MALAGA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4994 MALAGA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4994 MALAGA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4995 MALAGA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4995 MALAGA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4996 MACARIO DR	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4996 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4998 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4998 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4999 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4999 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4999 MALAGA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4999 MALAGA DR	2017, 2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5000 MACARIO DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5000 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5001 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5001 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5005 MACARIO DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5005 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5006 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
5006 MACARIO DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5010 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5010 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5011 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5011 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5014 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5014 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5015 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5015 MACARIO DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5016 MACARIO DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5016 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5021 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5021 MACARIO DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5025 MACARIO DR	2017, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5025 MACARIO DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
510 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
510 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
510 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
510 ROJA DR	2017, 2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
510 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 LUNA OR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 ROJA DR	2017, 2014, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
514 ROJA ST	2017, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
515 LUNA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
515 LUNA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
515 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
517 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
517 LUNA DR	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

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Address Researched	Address Not Identified in Research Source
517 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
518 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
518 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
518 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
521 LUNA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
521 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
521 ROJA DR	2017, 2014, 2009, 2006, 2004, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 LUNA DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
522 ROJA ST	2017, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
523 LONA DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
523 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
523 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
523 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
523 ROUA DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
525 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
525 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
525 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
526 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
527 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
527 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
527 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
530 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
530 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
530 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 LUNA DR	2017, 2014, 2009, 2006, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 ROJA DR	2017, 2014, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
531 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 LUNA DR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
534 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
535 LUNA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
535 LUNA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
535 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
538 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
538 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
538 ROJA DR	2017, 2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
538 ROJA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
538 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
539 LUNA DE ORO	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1992, 1991, 1989, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
539 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
539 LUNA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
539 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 LUNA DR	2017, 2014, 2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
542 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
543 LUNA DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
543 LUNA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
547 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
547 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
547 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
548 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
548 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
548 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
552 LUNA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
552 LUNA DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
552 LUNA DR N	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
553 GOLD DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
553 GOLD DR	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
554 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
554 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
555 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
555 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
556 GOLD DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
556 GOLD DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
557 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
557 GOLD DR	2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
558 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
558 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
559 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
559 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
560 GOLD DR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
560 GOLD DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
561 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
561 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
562 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
562 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
563 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1980, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
563 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

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Address Researched	Address Not Identified in Research Source
564 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
564 GOLD DR	2017, 2014, 2009, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
565 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1984, 1976, 1975, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
565 GOLD DR	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
566 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
566 GOLD DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
567 GOLD DR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
567 SOL BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
585 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
585 ROJA DR	2017, 2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
585 ROJA ST	2017, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
587 ROJA DR	2017, 2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
587 ROJA DR	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
587 ROJA ST	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
587 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
589 ROJA DR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
589 ROJA DR	2017, 2014, 2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
589 ROJA ST	2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
600 CARILLO CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
600 MONICA CIR	2017, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
600 MONICA CIR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
601 CARILLO CIR	2017, 2014, 2009, 2004, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
601 CARILLO CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
605 MONICA CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
606 MONICA CIR	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
610 MONICA CIR	2017, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
610 MONICA CIR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1995, 1994, 1992, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
611 MONICA CIR	2009, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
614 MONICA CIR	2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
615 MONICA CIR	2014, 2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
616 MONICA CIR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
617 MONICA CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
618 MONICA CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
619 MONICA CIR	2009, 2006, 2000, 1999, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
619 MONICA CIR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
620 MONICA CIR	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
621 MONICA CIR	2006, 2000, 1995, 1994, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

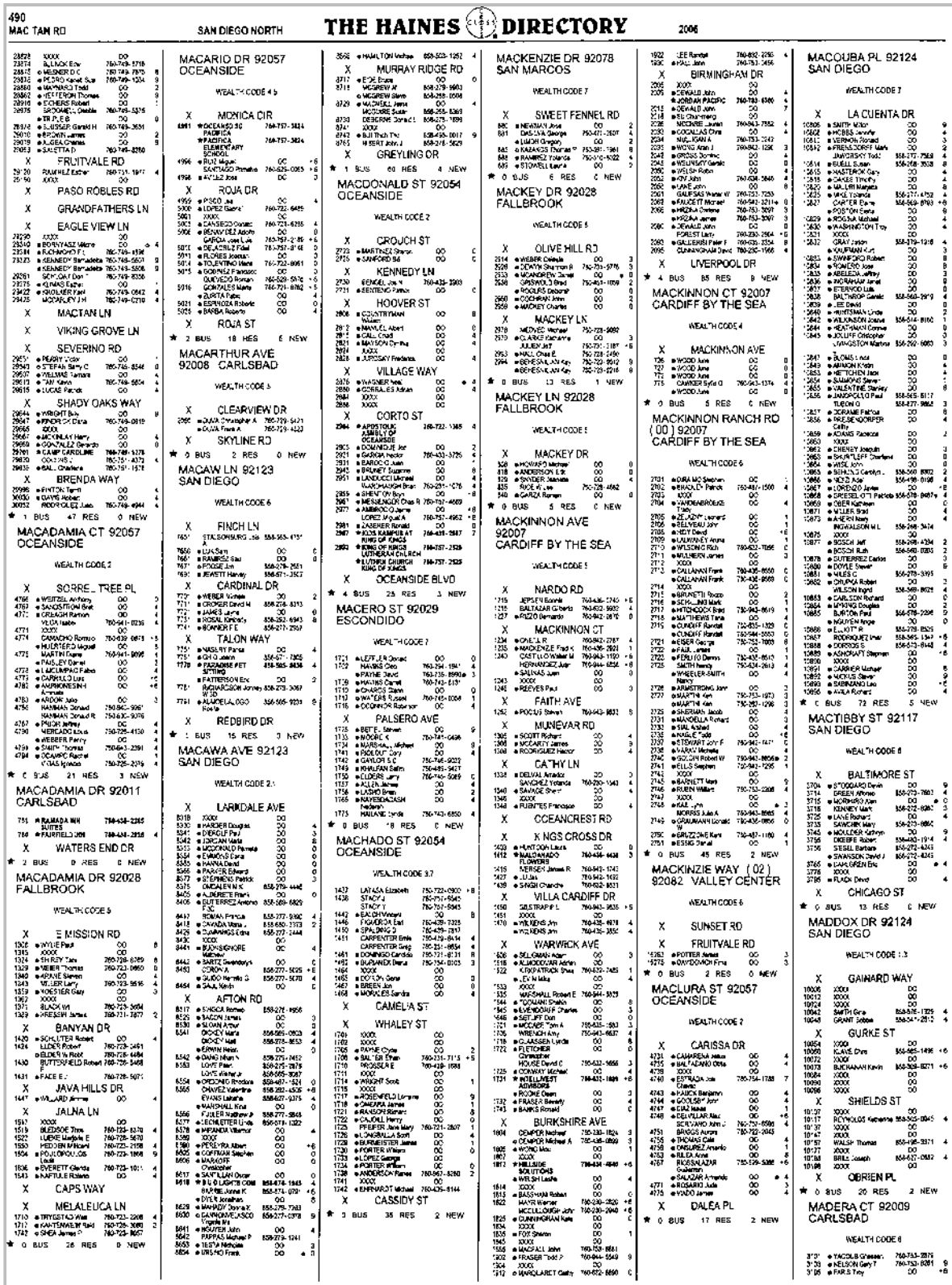
The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
4991 Macario Dr	2017, 2014, 1992, 1989, 1984, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

Source Page Images Appendix

TP	Adjoining	Source
✓	✓	Haines Company, Inc.

MACARIO DR 2006



MACARIO DR 92057
OCEANSIDE

WEALTH CODE 4 5

X MONICA DR

6981 ★OCEANSIDE SD PADRE/PACIFICA ELEMENTARY SCHOOL 760-757-3824

X FRUITVALE RD

SANTIAGO Pamela 760-525-0053 +6

X ROJA DR

X PASO ROBLES RD

X GRANDFATHERS LN

X EAGLE VIEW LN

X VIKING GROVE LN

X SEVERINO RD

X SHADY OAKS WAY

MACADAMIA CT 92057
OCEANSIDE

WEALTH CODE 2

X SORRENTO PL

MACADAMIA DR 92011
CARLSBAD

X WATERS END DR

MACADAMIA DR 92028
FALLBROOK

WEALTH CODE 5

X E MISSION RD

X BANYAN DR

X JALNA LN

X MELALEUCA LN

MACARTHUR AVE
92008 CARLSBAD

WEALTH CODE 5

X CLEARVIEW DR

X SKYLINE RD

MACAW LN 92123
SAN DIEGO

WEALTH CODE 6

X FINCH LN

X CARDINAL DR

X TALON WAY

X REDBIRD DR

MACAWA AVE 92123
SAN DIEGO

WEALTH CODE 2

X LARKDALE AVE

X AFTON DR

X JAVA HILLS DR

X CAPS WAY

MACKENZIE DR 92078
SAN MARCOS

WEALTH CODE 7

X SWEET FENNEL RD

X OLIVE HILL RD

X MACKEY LN

X MACKEY DR

X NARDO RD

X MACKINNON CT

X FAITH AVE

X MUNEVAR RD

X CATHY LN

X OCEANCREST RD

X K NGS CROSS DR

X VILLA CARDIFF DR

X WARWICK AVE

X BURKSHIRE AVE

X CASSIDY ST

MACKINNON CT 92007
CARDIFF BY THE SEA

WEALTH CODE 4

X MACKINNON AVE

MACKINNON RANCH RD
(00) 92007
CARDIFF BY THE SEA

WEALTH CODE 6

MACKINNON AVE
92007
CARDIFF BY THE SEA

WEALTH CODE 5

MACKINZIE WAY (02)
92082 VALLEY CENTER

WEALTH CODE 6

X SUNSET RD

X FRUITVALE RD

MACLURA ST 92057
OCEANSIDE

WEALTH CODE 2

X CARISSA DR

X DALEA PL

MACKENZIE DR 92078
SAN MARCOS

WEALTH CODE 8

X MURRAY RIDGE RD

X GREYLING DR

MACDONALD ST 92054
OCEANSIDE

WEALTH CODE 2

X CROUCH ST

X KENNEDY LN

X HOOVER ST

X CORTO ST

X VILLAGE WAY

MACHADO ST 92054
OCEANSIDE

WEALTH CODE 3.7

X CAMELIA ST

X WHALEY ST

X PALSERO AVE

MACERO ST 92029
ESCONDIDO

WEALTH CODE 7

X OCEANSIDE BLVD

X BIRMINGHAM DR

X LIVERPOOL DR

MACOUBA PL 92124
SAN DIEGO

WEALTH CODE 7

X LA CUENTA DR

MACTIBBY ST 92117
SAN DIEGO

WEALTH CODE 6

X BALTIMORE ST

MADDOX DR 92124
SAN DIEGO

WEALTH CODE 1.3

X GAINARD WAY

X SHIELDS ST

X GURKE ST

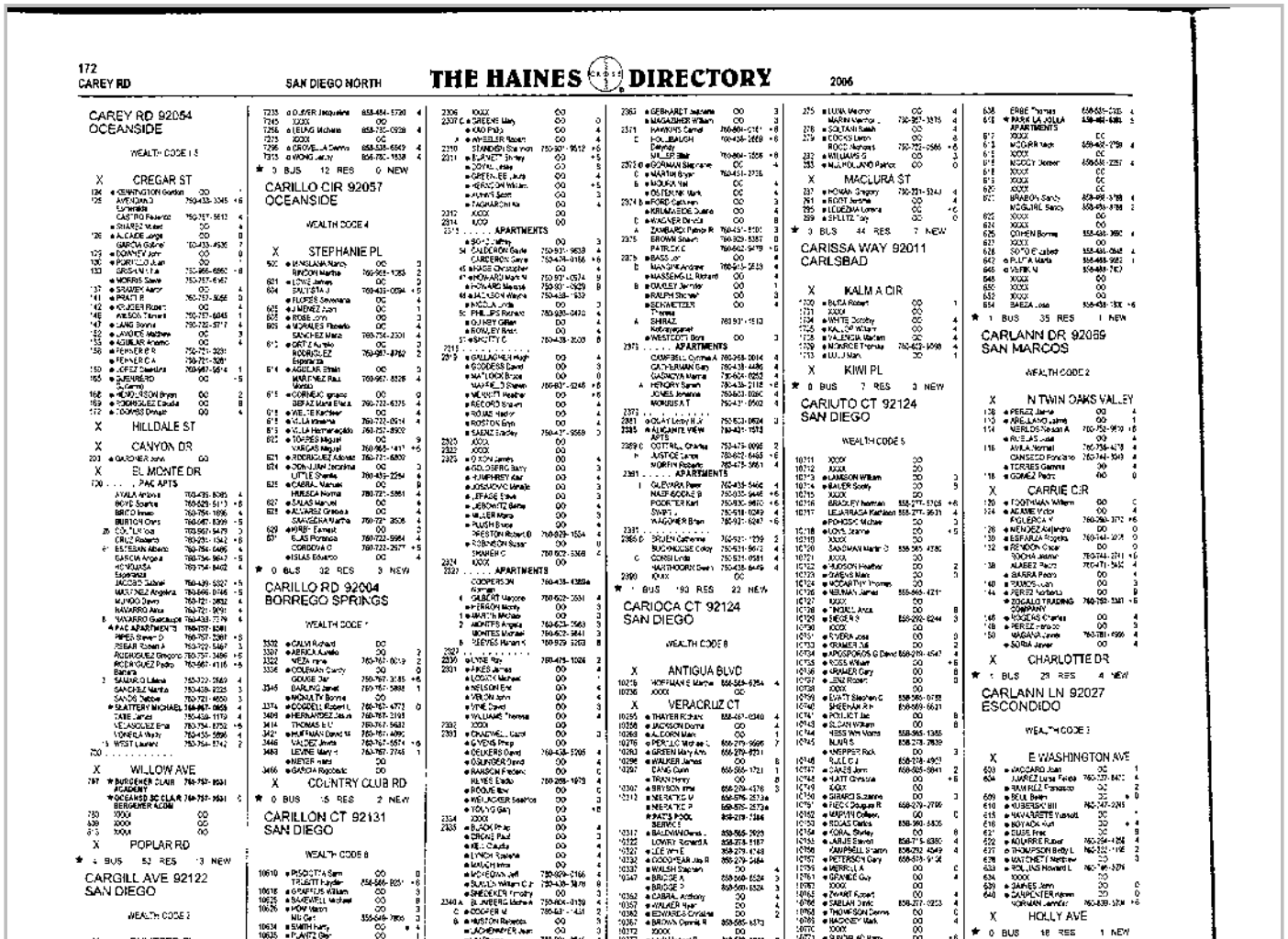
X OBRIEN PL

MADERA CT 92009
CARLSBAD

WEALTH CODE 6

TP	Adjoining	Source
-	✓	Haines Company, Inc.

CARILLO CIR 2006



CAREY RD 92054
OCEANSIDE

WEALTH CODE 1 5

X CREGAR ST
126 ● CENTINGTON Gordon 00
128 AVENDANO 760-433-3345 +6
Esmeralda
CASTRO Federico 760-757-5613
● SUAREZ Mabel 00
128 ● ALCADE Jorge 00
GARCIA Gabriel 760-433-4535
129 ● DONNEY John 00
130 ● PORTILLO Juan 00
133 GROSJEAN Eva 760-966-6952 +6
● MORRIS Gene 760-757-6167
137 ● SRAMEK Aaron 00
141 ● PRATT R 760-757-3656
142 ● ROUSER Robert 00
146 WILSON Tamara 760-757-6045
147 ● LANG Donna 760-722-5717
152 ● LANDRY Melissa 00
155 ● AGUILAR Arsenio 00
156 ● FERREIRA R 760-721-3231
● FERREIRA C 760-721-3231
● LOPEZ Stanislaus 760-967-0614
165 ● SUPERIRO 00
Eufemio
168 ● HOAGLASON Bryan 00
169 ● RODRIGUEZ Eduardo 00
172 ● TORRES Donald 00

X HILLDALE ST

X CANYON DR
203 ● GARDNER John 00

X EL MONTE DR
720 . . . . . PAC APTS
AYALA Antonio 760-435-8385
BOYE Sparkle 760-529-5113
BRICO Ismael 760-754-1656
BURTON Chris 760-967-8399
26 COLTER Gail 760-967-9479
CRUZ Roberto 760-521-1342
ESTEBAN Alberto 760-754-0486
GARCIA Angel 760-754-9647
HOYUUASA 760-754-8402
Esperanza
JACOBO Sabino 760-439-5927
MARTINEZ Angelina 760-966-8166
MUNOZ Jaime 760-721-9582
NAVARRO Alma 760-721-9091
8 NAVARRO Guadalupe 760-438-7179
● PAC APARTMENTS 760-757-8381
PIRES Steven D 760-757-2367
ZEBAR Robert A 760-722-5467
RODRIGUEZ Gregorio 760-757-3486
RODRIGUEZ Pedro 760-967-4115
Barbara
3 SAAVEDRA Liliana 760-722-7569
SANCHEZ Martha 760-438-2225
SANDS Debbie 760-721-4650
● SATTERLY MICHAEL 760-967-7669
TABE James 760-439-1179
VELASQUEZ Erik 760-754-8752
VONREA Wally 760-455-5896
WEST Laurence 760-754-8742

X WILLOW AVE
787 ★ BURDEMEIER CLAIR 760-757-9581
ACADEMY
● OCEANSIDE SC CLA R 760-757-9581
BERGMEIER ALDEN
793 XXXX 00
838 XXXX 00
913 XXXX 00

X POPLAR RD
★ 4 BUS 52 RES 13 NEW

CARGILL AVE 92122
SAN DIEGO

WEALTH CODE 2

X PULITZER PL
8755 . . . . . APARTMENTS
1 ASARPOTA Dilo 858-456-6456
ASTARKHOV Vadim 858-638-6402
ATSUMI Masako 534-623-5031
GUNTUKUN YESIM 858-597-0126
Wesley
CHEN Chun 858-642-2056
CHEN Jin Yong 858-623-0162
DOMINGUEZ Ana 858-300-2028
Lucia
HONG Zheng 858-450-7212
LIU Chuan Yu 858-452-9263
NACARU Santosh 858-455-3854
PRASELLA 858-452-3050
Preservation
PUJAN Mohammad 858-450-2825
REBAZA Juan 858-550-5345
ROOF Nathan 858-453-5490
SANCHEZ Maria 858-625-7084
TSUI Tommy 858-677-9624
VARGAS Emily 858-453-7454
8755 . . . . . .

X NOBEL DR
★ 0 BUS 17 RES 4 NEW

CARIB CT 92117
SAN DIEGO

WEALTH CODE 5

X WINNEBAGO AVE
4412 ● MITCHELL Eric 00
4417 ● DESCHAMPS Pierre 00
4429 ● TETTEMBURN Gary 00
4431 PHILLIPS Sandra 858-274-6102
★ 0 BUS 4 RES 0 NEW

CARIB DR 92029
ESCONDIDO

WEALTH CODE 8

6895 XXXX 00
6896 HEATON Richard 760-471-8557
★ 0 BUS 2 RES 3 NEW

CARIBOU CT (04)
92129 SAN DIEGO

7155 LIU Ling 858-538-2908
LIU Yuanxin 858-538-2908
7175 XXXX 00
7195 ● KUAN Yang 858-484-8075
● BLOTNES A 858-538-1547
● BLOTNES Y 858-538-1547

7233 ● DOYER Jacqueline 858-484-5720
7245 XXXX 00
7256 ● LEUNG Michelle 858-752-0938
7275 XXXX 00
7296 ● CROVELLA Dennis 858-538-6842
7315 ● WONG Jacky 858-752-1538
★ 0 BUS 12 RES 0 NEW

CARILLO CIR 92057
OCEANSIDE

WEALTH CODE 4

X STEPHANIE PL
500 ● MENDANA Nancy 00
RINCON Martha 760-966-1283
601 ● LOWE Jeffrey 00
604 SALITSKA J 760-433-0094
● FLORES Silvestre 00
605 ● MENEZ Juan 00
608 ● ROSE Jon 00
609 ● MORALES Ricardo 00
SANCHEZ Maria 760-754-2301
611 ● ORTEZ Adolfo 00
RODRIGUEZ 760-967-8762
Esperanza
614 ● AGUILAR Efrain 00
MARTINEZ Raul 760-967-8826
Yolanda
615 ● CORNEJO Ignacio 00
SERAZ Maria Elena 760-722-6375
618 ● WELTE Kathleen 00
619 ● VILLA Marisela 760-722-0514
619 ● VILLA Hermenegildo 760-757-8902
622 ● SOARES Miguel 00
VARGAS Miguel 760-966-1497
621 ● RODRIGUEZ Adonai 760-757-6802
624 ● DON JUAN Jacqueline 00
LITTLE Sherita 760-439-2254
625 ● CABRAL Manuel 00
HUERGA Norma 760-722-5861
627 ● CALAS Manuel 00
628 ● ALVAREZ Orlando 00
SAAVEDRA Martha 760-722-3526
629 ● MIRIB Earnest 00
631 ● CLAS Florencio 760-722-5964
CORDOVA C 760-722-2577
● ISLAS Eduardo 00
★ 0 BUS 12 RES 3 NEW

CARILLO RD 92004
BORREGO SPRINGS

WEALTH CODE 7

3532 ● CALVI Richard 00
3537 ● AERICA Aurelio 00
3552 VEZA rene 760-767-0019
3556 ● COLEMAN Charity 00
GEORGE Jay 760-767-3185
3545 BARLING Janet 760-767-5888
● MONJUITY Bonnie 00
3574 ● GOODELL Robert L 760-767-4772
3606 ● HERNANDEZ Jesus 760-767-2193
3614 THOMAS B D 760-767-5683
3621 ● HUFFMAN David M 760-767-4092
3646 VALDEZ Javier 760-767-5674
3683 LEVINE Mary I 760-767-2746
● MEYER Hans 00
3666 ● GARCIA Rodolfo 00

X COUNTRY CLUB RD
★ 0 BUS 15 RES 2 NEW

CARILLON CT 92131
SAN DIEGO

WEALTH CODE 8

10610 ● PISCITTA Sam 00
TRUETT Hayden 858-566-8051
10618 ● GRAFFIUS William 00
10625 ● SHURTLEFF Michael 00
10626 ● HOW Wendy 00
Mu Ger 858-549-7856
10634 ● SMITH Harry 00
10635 ● PLANTZ Ben 00
10642 ● SMITH Dana 858-535-9414
10650 ● KENNEDY Roxanne 858-566-9697
10651 ● KUMAR Ajaya 00
10658 ROBINSON Steven 858-578-6090
10665 ● ROBERTS Robert 00
10666 ● WILSON Chris 858-271-7949
10672 ● WERNER Jos M 858-566-8857
10674 ● GADDIE Brian 00
10681 ● YINGLI William 858-566-9009
10688 ● PRITCHARD John 00
10696 ● SAFARI Masoud 858-566-0969
SAFARI Mehdi 858-635-1079
● SCHOPP Tina 858-693-3926
PAULUS Wayne 858-566-5206
10715 ● LUBSCH Rosella 00
10722 KRIGHOO Linda 00
10730 ● BARR Steven J 858-566-7905
10746 ● WORKE Gordon 00
10745 ● BAETAS Sebastian 00

X STEUER WAY
10750 ● YUNEVIAK Amin 858-547-3843
10751 ● ROMO Carlos 858-578-4011
10757 ● SERCOM Charles 00
10758 ● SASNUCH Robert 858-547-9633
● SASNUCH Robert C 858-693-7569
10766 ● CAMPBELL Thomas 00
10768 ● COOPER Jon 00
10773 ● PIONEEMER Wilgre 00
10774 XXXX 00
10781 ● BISCOCHO 858-586-9077
ARCHITURAL
DESIGNER
● BISCOCHO Elynn 858-586-9077
● BISCOCHO 858-689-9077
REALTOR
10787 ● MARCHELLO 858-586-1997
Stephen
10789 ● SIAS Samuel 00
10790 ● COIMBRA Raul 00
10793 ● LEE Scott 00
10797 ● CHURCH Kenneth 00
10798 ● BRAEN James 00
★ 2 BUS 43 RES 2 NEW

CARINGA WAY 92009
CARLSBAD

WEALTH CODE 5

X ALTISIMA WAY
3302 XXXX 00
3533 ● BROTEN Norman 00
3564 BREWER 760-431-9703
3595 ● ARNESON Ted 760-431-9213
C ● DEMPSEY Wanda 00
A ● JONES Cheryl 00
● RYDER Scott 00

2306 XXXX 00
2307 C ● GREENE Mary 00
● KOO Philip 00
A ● WHEELER Robert 00
2310 STANDISH Stephen 760-907-9512
2311 ● BURNETT Shirley 00
● DOYLE Mike 00
● GREENLEE Laura 00
● HERSCHEN William 00
● HUNTER Sean 00
● TAGHAR Chi Ka 00
2312 XXXX 00
2314 XXXX 00
2315 . . . . . APARTMENTS
● SOCO Jeffrey 00
SM CALDERON Gayle 760-931-9638
CARDERON Gene 760-474-9166
45 ● HASEB Christopher 00
4th ● HONDARU Mark N 760-931-0574
● HONDARU Marquis 760-931-0529
6th ● JACKSON Wayne 760-438-1932
● NICOLA Linda 00
SC PHILLIPS Richard 760-930-0410
● QUINBY Gillian 00
● ROWLEY Brad 00
ST ● SHOTTY C 760-438-2600
2315 . . . . . .
2319 ● GALLAGHER Hugh 00
● GOODESS David 00
● MATLOCK Bruce 00
MAYFIELD Steven 760-967-9245
● MERRITT Heather 00
● RECORD Shawn 00
● ROJAS Nestor 00
● ROSTON Chris 00
● SAENZ Bradley 760-437-9569
2320 XXXX 00
2322 XXXX 00
2326 ● TOXON James 00
● GOLDBERG Barry 00
● HUMPHREY Alan 00
● JOSEPHSON Mirelle 00
● LEFAGE Steve 00
● JEBOWITZ Bette 00
● MILLER Wayne 00
● PUGH Bruce 00
PRESTON Robert D 760-929-1554
● ROBINSON Susan 00
ENAMEH C 760 602-3368
2324 XXXX 00
2327 . . . . . APARTMENTS
COOPERSON 760-438-4388
Kenneth
4 GILBERT Marjorie 760-602-2551
● PERRON Monty 00
1 MARTIN Michael 00
2 MONTES Angela 760-623-2563
MONTES Michael 760-602-3441
B SIEVES Miriam K 760-929-3263
2327 . . . . . .
2330 ● LYNE Ray 760-479-1026
2331 ● HESS James 00
● LOGAN Michael 00
● NELSON Eric 00
● YERLON John 00
● YIM Daniel 00
● WILLIAMS Theresa 00
2332 XXXX 00
2333 ● CRADWELL Carol 00
● LYONS Greg 00
● DEKKERS David 760-438-5705
● GRUNDER David 00
● MANSON Frederic 00
HUYES Eddie 760-295-1978
● ROQUE Rey 00
● WELLACHER Seamus 00
● YOUNG Gary 00
2334 XXXX 00
2335 ● BLACK Philip 00
● CRONE Paul 00
● HESS Audra 00
● LYNCH Roberta 00
● MAUCH Irma 00
● MCKEOWN Jeff 760-809-2166
● SUNOL William C Jr 760-438-3818
● SHEDEKER Timothy 00
2340 A BLUMBERG Michael 760-804-0139
C ● COOPER M 760-943-1431
B ● HUSTON Reynolds 00
● JACHENMEYER Jean 00
● LIU Sharon 760-801-9646
● LOZANO Ayleet R 760-602-9742
2341 ● ASHURST Donald 00
● PENRI Hilary 00
2342 B ● CARPENTER Shelly 00
GREY S 760-437-7818
GREY S 760-431-7818
● MEYRICH Gary 00
● WOODSON Lori 858-453-4626
A ● ZANGAS Andrea 00
2343 ● BUNKENSHIP Chris 760-809-1336
● HOFFERMAN Samuel 760-918-9432
● KUHEN Kirk 00
● SAGAR Natasha A 760-602-8835
● WILSON Linda 00
2344 B ● FUNG Yip 00
● MCDONNELL Brian 00
● RAMIREZ Mario 00
2345 ● FRESHWATER James 00
MARBLE Stephanie 760-431-2220
● MCCLELLAN Richard 00
● SCOTT Brent 00
2346 ● CHECCA Rocky 00
● CONTRERAS Gerson 00
● INGRO B 760-602-0338
2351 ARMSTRONG Grant 760-931-9042
● DOUGHLIN Shannon 760-918-9021
2352 BRANHAM Carol 760-436-8724
● OSNA Tania 00
● CLARK Irma 00
● HALIZA Rudy 00
● KENNEY Bev 00
● RODDA Dr Calvin 00
● SARDA Gil Greg 00
STIRES John C 4TH 760-815-1881
2353 ● SEDILLA Karen 00
● WILSON Jay 760-438-1225
2354 D ● CAMERON Craig 760-438-7517
B ● WADSWORTH Angela 760-602-0094
● BUG JRA Maryann 00
A ● VELLA Celeste 00
2355 ● CASELLA Gena 00
● MOSLEY Douglas 00
● NAVARRO Arturo 00
● PENA Jerry 00
YADON Lenaya 760-431-8922
2356 B GOBI Sanjaynarayan 760-602-9705
C ● FISNBERG Pavel 760-804-1471
2357 ● HOMES Teresa 00
● JOHNSON Jeffrey A 760-602-0514
● JOHNSON Jeffrey A 760-621-0997
LOBER Rich 760-622-7818
● WALTERS Angelique 00
● WILSON Jennifer 00
2361 ● HOOGY Regina 00

2363 ● GEBHARDT Jacqueline 00
● MAGAZINER William 00
2371 HAWKINS Carmel 760-840-1241
C POLLBAUGH 760-438-2669
Dennay
MILLER Stan 760-804-1206
2372 ● GORMAN Stephanie 00
C ● MARTIN Bryan 760-431-2726
B ● MOLKA Nil 00
● OLSEN Mark 00
2374 B ● FORD Kathryn 00
● KRUMREDE Joanne 00
D ● MACNEE Dennis 00
A ZAMBARDI Patrick R 760-431-8101
2375 BROWN Shawn 760-929-5387
PATRICK C 760-602-9479
2376 ● BASS Jon 760-931-2513
B MANSINI Andrew 760-931-2513
● MASSEMILLI Richard 00
B ● DAILEY Jennifer 00
● RAUPH Richard 00
● SCHWEITZER 00
Theresa
A SHIRAZ 760 931-1513
Ketayangaran
● WESTCOTT Bob 00
2378 . . . . . APARTMENTS
CAMPBELL Cynthia A 760-968-0014
CATHERMAN Gary 760-438-4486
GASNOVA Marina 760-604-0252
HENDRY Sharon 760-438-2188
JONES Jonanna 760-603-0086
MORRIS A T 760-431-0502
2373 . . . . . .
2381 ● GOLAY Leroy H Jr 760-603-0624
2385 ● ALICANTE VIEW 760-431-1572
APTS
2389 C COTTRELL Charles 760-479-0095
h JUSTICE Lance 760-602-6465
NORTH Roberta 760-479-3961
2391 . . . . . APARTMENTS
I OLEVARA Peter 760-438-5466
NAEF-BODAS B 760-035-9646
PODRITER Karl 760-930-9610
SWIFT L 760-438-1049
WAGGNER Brian 760-931-6247
2391 . . . . . .
2395 C ● BROEN Catherine 760-921-1709
BUCKHOUSE Coley 760-931-9672
C CORSI Linda 760-931-0581
HARTHOORN Dawn 760-438-8449
2399 XXXX 00
★ 1 BUS 93 RES 22 NEW

CARIOCA CT 92124
SAN DIEGO

WEALTH CODE 8

X ANTIGUA BLVD
10215 HOFFMAN E Marlene 858-569-6264
10230 XXXX 00

X VERACRUZ CT
10255 ● THAYER Richard 858-467-0340
10258 ● JACKSON Donna 00
10268 ● ALDORN Mark 00
10276 ● PERCLO Michael C 858-279-9996
10283 ● GREEN Mary Ann 858-279-8231
10296 ● WALKER James 00
10297 DANG Dinh 858-566-1721
● TRAN Henry 00
10307 ● BRYSON Irma 858-279-4376
10313 ● NEMETICS M 858-578-2834
NEMETICS P 858-578-2834
● PHATS POOL 858-279-7386
BERNICE
10317 ● BALDWIN Denis 858-566-2928
10322 LOWRY Richard A 858-578-5187
10327 ● LEE Wm E 858-279-4748
10332 ● SCHNEIDER Jay R 858-279-5484
10337 ● WALSH Stephen 00
10347 ● BRIGGS A 858-566-6524
● BRIGGS J 858-566-6524
10352 ● CABRAL Anthony 00
10357 ● WALKER Hyer 00
10362 ● EDWARDS Christine 00
10367 ● BROWN Darrell R 858-566-4373
10372 XXXX 00
10377 ● LAW Michael R 858-653-1910
10382 XXXX 00
★ 1 BUS 27 RES 0 NEW

CARIOCA PL 92084
VISTA

2326 ● HARNER Brandi 00
2330 ● PATTERSON Jerry 00
2333 ● MIHAL Sylvia 00
2334 ● SONG Paul 760-758-1068
2338 ● TARNOWSKY 00
Christopher
2345 ● ALVAREZ Juan 00
2348 ● CARDONA Linda 00
★ 0 BUS 7 RES 0 NEW

CARISSA DR 92057
OCEANSIDE

WEALTH CODE 2

X OLEANDER DR
203 ● SANAKOR Marlene 00
207 ● SALYER Kelly 760-231-9632
211 ● CARTWRIGHT 00
Jeff
215 ● ROSE Michael 00
219 ● SHANYON G 760-722-7580
223 ● MEER Steve 00
226 ● AYALA Grace 00
ROBERTSON M 760-967-1173
227 XXXX 00

X DALEA PL
230 ● MARLIM David 00
231 XXXX 00
234 ● AYALA Ignacio 00
BADIO Antonio 760-231-9610
235 ● FARRE Wilson 00
238 ● VERANGO Dominador 00
239 ● ANDREWS Georgina 00
242 XXXX 00
243 RAMIREZ Jose 760-533-0131
247 ● GARCIA Juan M 760-433-2405
250 ● HERNANDEZ Candida 760-439-4005
ROCHINI Imelda 760-929-0856
251 XXXX 00
254 ● CAMPBELL Thomas P 760-722-7782
255 ● VERGARA Pedro 760-529-5989
258 ● ECHOMORTZEL Gary 00
MOLINGER Alma 760-753-1062
259 ● JACOBO Roberto 00
262 XXXX 00
263 ● LOPEZ Silvio 00
266 ● KRISCHER Bernard 760-722-5364
267 ● KRUKOWSKY Paul 00
271 ● MCCARTHY Kathleen 00
274 ● PUENTE Miguel 00

275 ● LUNA Mercor 00
MARIN Maritza 760-967-3515
278 ● SOLTANI Sarah 00
279 ● COCKS Leon 00
ROCO Nohora 760-722-0566
282 ● WILLIAMS G 00
283 ● MALMOLAND Patrick 00

X MACLURA ST
287 ● HOWAN Gregory 760-231-9243
291 ● ROOT Jerome 00
295 ● LEDESMA Lorena 00
299 ● SPLITZ Jay 00
★ 0 BUS 44 RES 7 NEW

CARISSA WAY 92011
CARLSBAD

X KALMIA CIR
7200 ● BUTA Robert 00
7231 XXXX 00
7234 ● WHITE Bobby 00
7235 ● KALOP Wiliam 00
7238 ● VALENCIA Marlen 00
7239 ● MONROE Thomas 760-603-9098
7243 ● DU J Man 00

X KIWI PL
★ 0 BUS 7 RES 3 NEW

CARIUTO CT 92124
SAN DIEGO

WEALTH CODE 5

10711 XXXX 00
10712 XXXX 00
10713 ● LAMSON William 00
10714 ● BAUER Sandy 00
10715 XXXX 00
10716 BRADLEY Norman 858-277-5705
10717 LEJARRAGA Kathleen 858-277-3611
● POHOSIC Michael 00
10718 ● LOVE Joanne 00
10719 XXXX 00
10720 SANDMAN Martin G 858-560-4780
10721 XXXX 00
10722 ● HUDSON Heather 00
10723 ● GREVIS Mark 00
10724 ● MCCARTHY Thomas 00
10725 ● NEIMAN James 858-566-4211
10727 XXXX 00
10728 ● INGALL Anca 00
10729 ● SIEGER S 858-janv-6244
10730 XXXX 00
10731 ● RIVERA Jose 00
10733 ● KRAMER Jill 00
10734 ● KROSKOWSKI G David 858-janv-4547
10735 ● ROSS Wilbert 00
10736 ● KRAMER Gary 00
10737 ● JENG Robert 00
10738 XXXX 00
10739 ● EVATT Stephen G 858-560-0788
10740 SHEEHAN Rich 858-669-6631
10741 ● POLLICT Jac 00
10743 ● BLOHN William 00
10744 ● KROSKOWSKI G David 858-janv-4547
10745 ● ROSS Wilbert 00
10746 ● KRAMER Gary 00
10747 ● JENG Robert 00
10748 XXXX 00
10749 ● EVATT Stephen G 858-560-0788
10750 SHEEHAN Rich 858-669-6631
10751 ● POLLICT Jac 00
10752 ● BLOHN William 00
10753 ● KROSKOWSKI G David 858-janv-4547
10754 ● ROSS Wilbert 00
10755 ● KRAMER Gary 00
10756 ● JENG Robert 00
10757 XXXX 00
10758 ● EVATT Stephen G 858-560-0788
10759 SHEEHAN Rich 858-669-6631
10760 ● POLLICT Jac 00
10761 ● BLOHN William 00
10762 ● KROSKOWSKI G David 858-janv-4547
10763 ● ROSS Wilbert 00
10764 ● KRAMER Gary 00
10765 ● JENG Robert 00
10766 XXXX 00
10767 ● EVATT Stephen G 858-560-0788
10768 SHEEHAN Rich 858-669-6631
10769 ● POLLICT Jac 00
10770 ● BLOHN William 00
10771 ● KROSKOWSKI G David 858-janv-4547
10772 ● ROSS Wilbert 00
10773 ● KRAMER Gary 00
10774 ● JENG Robert 00
10775 XXXX 00
10776 ● EVATT Stephen G 858-560-0788
10777 SHEEHAN Rich 858-669-6631
10778 ● POLLICT Jac 00
10779 ● BLOHN William 00
10780 ● KROSKOWSKI G David 858-janv-4547
10781 ● CHEATHAM Kevin 00
10782 XXXX 00
10783 ● LAUTENSCHLAGER Gary 858-277-6396
10785 ● GUERRON Larry 858-565-1771
● GUERRON Sharon 858-565-1771
10789 ● COMBS Joe 858-541-0786
● COMBS Joe 858-571-5306
DORAN Joe 858-541-0786
10791 ● THOMAS J A 858-277-1018
10795 ● STUART John Wm 858-565-6130
10797 XXXX 00

X ABUELA DR
10805 ● PETERSORF A 858-258-1074
10806 ● STEWART James 00
10813 ● GIBSON Eric 858-578-7502
10814 XXXX 00
10822 ● TERRELL Jean 00
10823 ● SHUPP Laurel 00
10824 ● STOKEY William 00
10830 GILES Marcia 858-275-8204
10838 XXXX 00
10845 ● BUSSEMEY 858-715-1388
10846 XXXX 00

X LA CUENTA DR
★ 0 BUS 85 RES 7 NEW

CARLA WAY 92037
LA JOLLA

WEALTH CODE 4

X LA JOLLA BLVD
570 FAHRAH L 858-488-1494
571 XXXX 00
574 DETSCH Stanislaus 858-488-4654
575 TAYLOR Steve 858-550-2500
578 XXXX 00
579 XXXX 00
582 XXXX 00

X LA JOLLA HERMOSA AV
601 XXXX 00
602 XXXX 00
603 XXXX 00
604 XXXX 00
606 TAYLOR George 858-488-9992
608 XXXX 00
807 STONE Jane 858-488-4661

638 ERBE Thomas 858-551-2335
648 ★ PARK LA JOLLA 858-481-5381
APARTMENTS
817 XXXX 00
818 ● MCGRR Herb 858-452-2758
915 XXXX 00
916 MCGOY Jeanne 858-558-2257
918 XXXX 00
919 XXXX 00
920 XXXX 00
BRABON Sandy 858-456-3788
MCGUIRE Sandy 858-456-8788
925 XXXX 00
926 XXXX 00
COHEN Bonnie 858-488-3660
927 XXXX 00
928 SOTO Elizabeth 858-488-0648
942 ● PUTA Maria 858-488-9985
945 ● VERKIN 858-488-7400
948 XXXX 00
950 XXXX 00
953 XXXX 00
954 BAEZA Jose 858-488-1302
★ 1 BUS 35 RES 1 NEW

CARLANN DR 92069
SAN MARCOS

WEALTH CODE 2

X N TWIN OAKS VALLEY
138 ● PEREZ Jaime 00
143 ● ARELLANO Jaime 00
144 MERLOS Nelson A 760-752-9810
● RUELAS Jose 00
116 ARIAS Ismael 760-758-4478
CANSECO Fonciano 760-744-1043
● TORRES Gamma 00
118 ● GOMEZ Pedro 00

X CARRIE CIR
120 ● FOOTMAN William 00
124 ● ADAME Victor 00
FIGUEROA Y 760-290-3772
126 ● MENDEZ Alejandro 00
139 ● ESPARZA Rogelio 760-744-2018
132 ● RENDON Oscar 00
ROCHA Jasmin 760-744-3711
138 ALAREZ Pedro 760-471-3452
● BARRA Pedro 00
140 ● ROJOS Juan 00
144 ● PEREZ Norberto 00
● OCALLO TRADING COMPANY 760-750-3381
145 ● VASQUEZ Charles 00
148 ● PEREZ Ernesto 00
150 MAGANA Javier 760-781-4966
● SORIA Javier 00

X CHARLOTTE DR
★ 1 BUS 28 RES 4 NEW

CARLANN LN 92027
ESCONDIDO

WEALTH CODE 1

X E WASHINGTON AVE
633 ● MACCARO Juan 00
634 JUAREZ Luisa Felipa 760-737-8401
● RAMIREZ Francisco 00
639 ● BELL Brian 00
610 ● KUBERSKI III 760-747-2245
615 ● NAVARRETE Yuliesti 00
616 ● BOYADK Kurt 00
621 ● ELLIS Fred 00
622 ● AGUIRRE Ruben 760-294-4258
627 ● THOMPSON Betty L 760-322-1102
628 ● MATCHETT Matthew 00
633 ● ROLINS Howard L 760-749-3276
634 XXXX 00
639 ● JAMES John 00
640 ● CARPENTER Karen 00
NORMAN Jennifer 760-839-3704

X HOLLY AVE
★ 0 BUS 18 RES 1 NEW

CARLATA LN 92082
VALLEY CENTER

WEALTH CODE 5

X LOS HERMANOS RANCH
27312 ● WEST Reed 00
27338 ● CARNAHAN David 760-751-1054
27373 ● LEE Garry 00

X RICARDO RANCH RD
27402 ● CRAFT Thomas 00
27407 ● GREFE William 00
27421 ● NEVINS Joyce A 760-751-2106
27435 ● PECK Jack 760-749-1202
27440 ● NEGRANAM Kathryn 00
27443 ● KEPLER Jeffrey 00
27454 ● COX Judy 00
27477 ● PRAVIZ M 00
27478 ● ROBINSON Bill 00
27495 ● TOTH C D Jr 760-749-8127
★ 0 BUS 15 RES 1 NEW

CARLEY CIR 92126
SAN DIEGO

WEALTH CODE 6

X PEGASUS AVE
8946 ● PETERSON Brian 00
8962 ● FISLER David 858-586-0944
● VERSALYNX CORPORATION 858-586-6081
8954 THOMAS Wm L 858-586-6454
8955 ● POLLENBACH Dan 858-578-2203
● POLLENBACH Terry 858-578-2203
8962 WOLL David 858-566-1113
8961 ● PROUTY A 00
8967 LE Ty 858-547-4957
● Wil Bao 00
8967 ● DWYER Frank 858-547-3305
8972 ● MILLER Gerry 00
8973 ● DWYER Jerold 00
HERNANDEZ Caesar 858-880-9069
8979 REIFF Jeff E 858-549-4532
● TOOKU 00
8984 XXXX 00
8991 XXXX 00
8996 ● VELASQUEZ David 858-566-0409
8997 ● CLEMENTE Manuel 00
FERNANDEZ Celso S 858-566-1126
★ 1 BUS 20 RES 3 NEW

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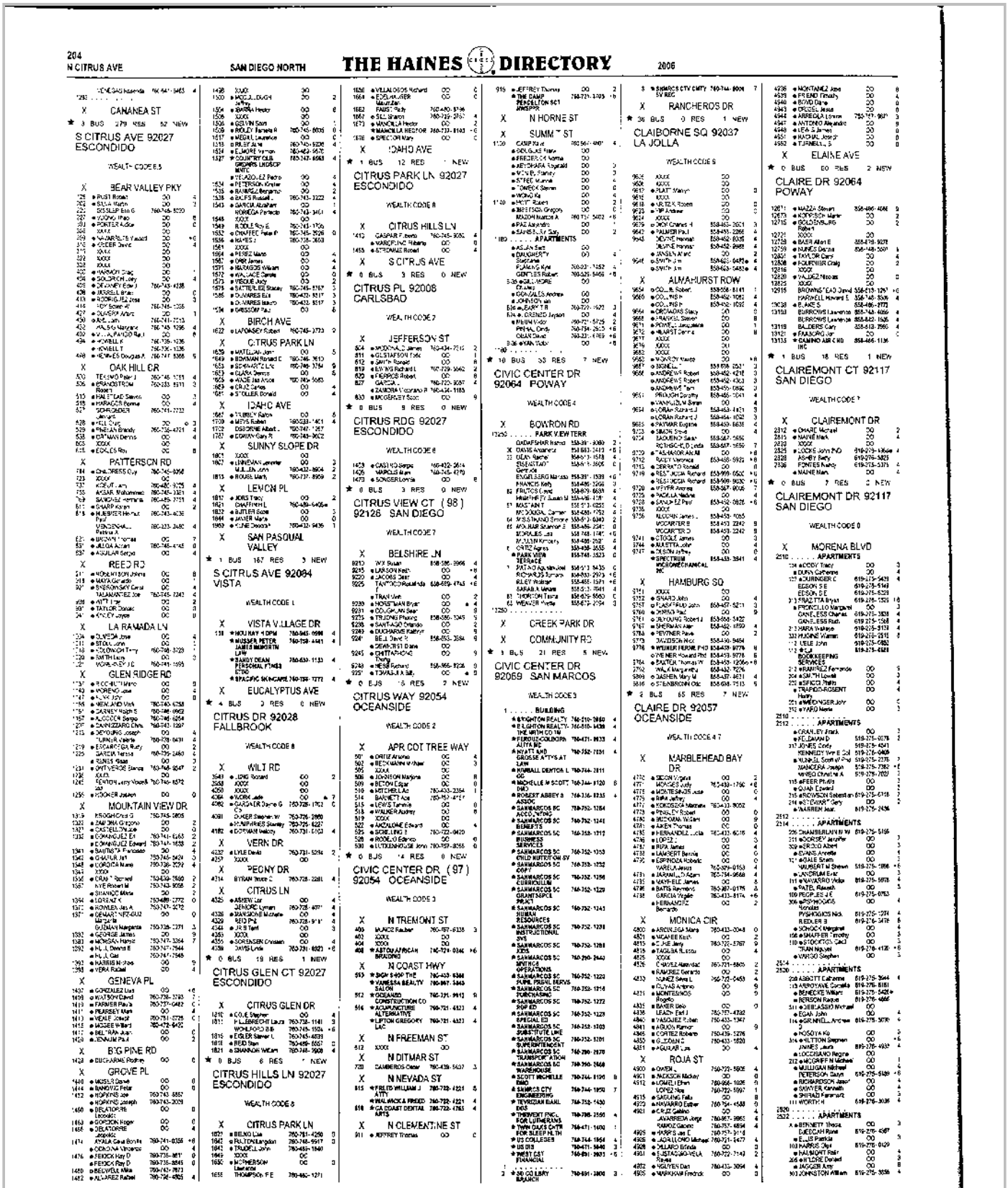
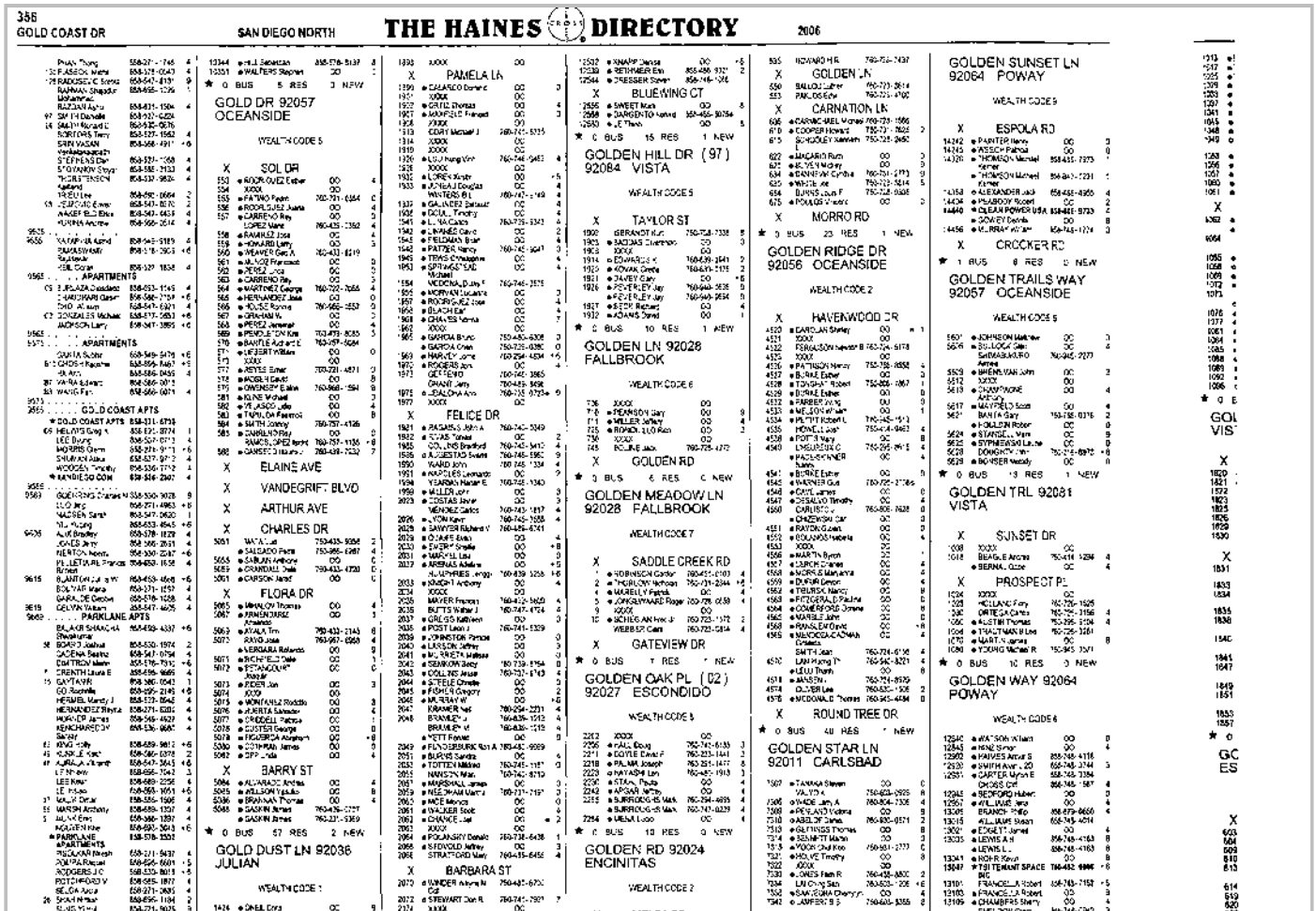
TP	Adjoining	Source
-	✓	Haines Company, Inc.

CLAIRE DR 2006



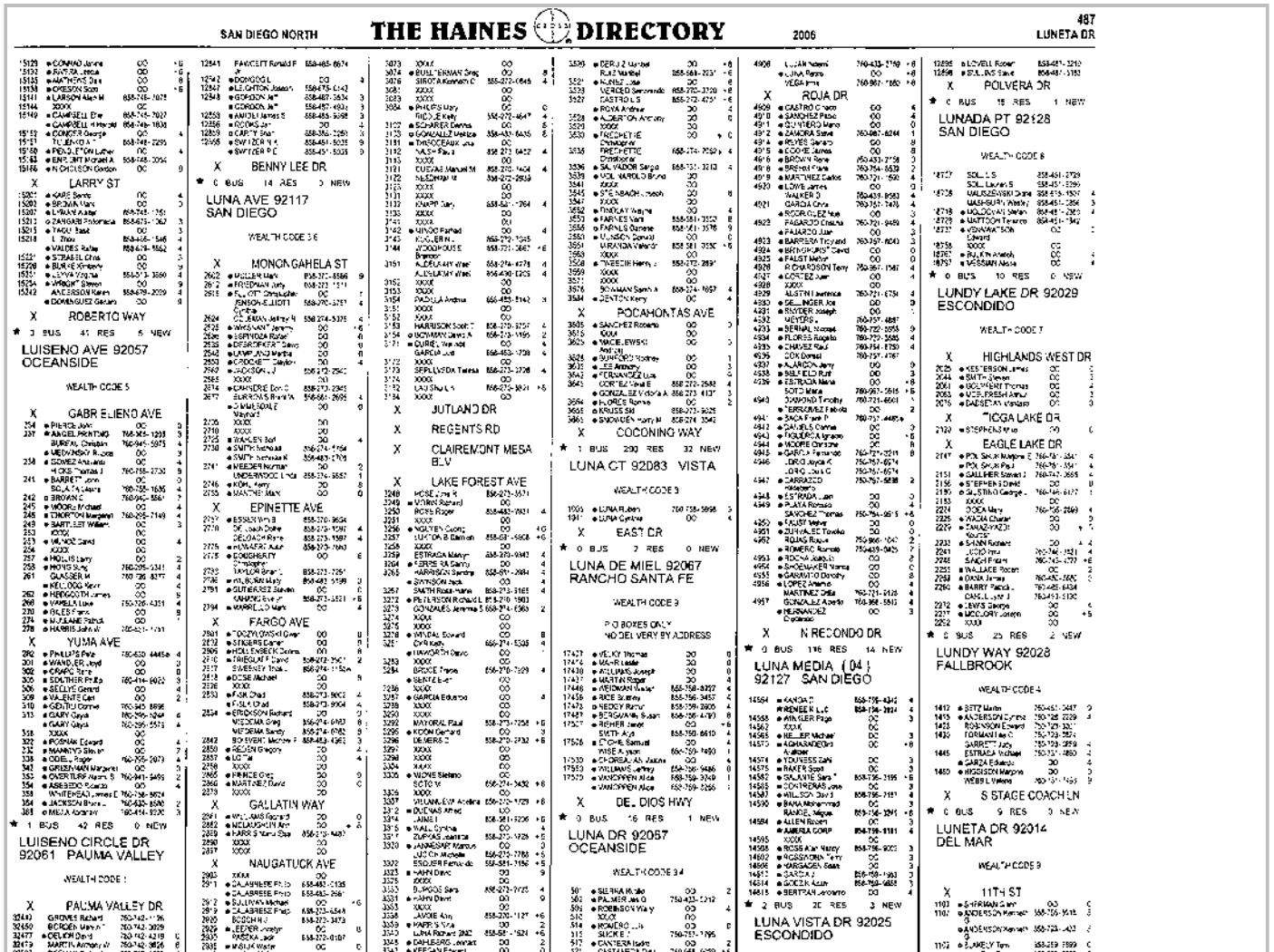
TP	Adjoining	Source
-	✓	Haines Company, Inc.

GOLD DR 2006



TP	Adjoining	Source
-	✓	Haines Company, Inc.

LUNA DR 2006



15129 ● CONRAD Janine OO +6
15132 ● RIVERA Leticia OO +6
15135 ● MATHEWS Dale OO 8
15138 ● OKESON Scott OO +6
15141 ● LARSON Allen M 858-748-7075
15144 XXXX OO
15149 ● CAMPBELL Elie 858-748-7027
● CAMPBELL Harold 858-748-1838
15152 ● CONGER George OO 4
15157 TULENKO A 858-748-2295
15160 ● PENDLETON Luther OO 4
15163 ● ENRIGHT Michael A 858-748-3054
15166 ● NICHOLSON Gordon OO 9

X LARRY ST

15201 ● KARE Bento OO 4
15202 ● BROWN Mark OO 0
15207 ● LYMAN Walter 858-748-1751
15210 ● ZANGARI Philomena 858-679-1062 3
15215 ● TAGU Basil OO 3
15218 L Zhou 858-486-1546 4
● VALDES Rafael 858-679-5562 4
15221 ● STRABEL Chris OO 3
15228 ● BURKE Kimberly OO 9
15231 ● LEYVA Virginia 858-513-3560 4
15234 ● WRIGHT Steven OO 9
15242 ANDERSON Karen 858-679-2029 4
● DOMINGUEZ Gerardo OO 9

X ROBERTO WAY

★ 0 BUS 41 RES 5 NEW

LUISENO AVE 92057
OCEANSIDE

WEALTH CODE 5

X GABRIELIENO AVE

254 ● PIERCE John OO 0
257 ● ANGEL PRINTING 760-965-1203 3
BUREAU Christian 760-945-5975 4
● MEDVINSKY Rubina OO 3
258 ● GOMEZ Anastasio OO 4
HICKS Thomas J 760-758-2730 9
241 ● BARRETT John OO 0
SOLA Tatiana 760-758-1635 4
242 ● BROWN C 760-945-5561 7
245 ● MOORE Michael OO 4
246 ● THORTON Margaret 760-295-7149 4
249 ● BARTLEET William OO 3
250 XXXX OO
253 ● MUNOZ David OO 4
254 XXXX OO
257 ● HOLLIS Larry OO 2
258 ● HONG Sung 760-295-5341 4
261 GLASSER M 760-726-8377 4
● KELLOGG Kevin OO 4
262 ● HEDGOOTH James OO 5
266 ● VARELA Luke 760-726-4351 4
270 ● GILES Frank OO 9
274 ● MULLANE Patrick OO 1
278 ● HARRIS John W 760-621-1751

X YUMA AVE

282 ● PHILLIPS Pete 760-630-4445e 4
301 ● WANDLER Lloyd OO 0
302 ● CRAPO Rene OO 0
305 ● SOUTHER Philip 760-414-9022 3
306 ● SEELYE Gerard OO 4
309 ● VALENTE Carl OO 2
310 ● GENTILI Connie 760-945-8896
313 ● GARY Gayle 760-295-5244 6
● GARY Gayle 760-295-5575 4
318 XXXX OO
322 ● POSNAK Edward OO 4
332 ● MANNING Steven OO 7
338 ● ODELL Roger 760-755-2073 4
342 ● GREENMAN Margaret OO 0
353 ● OVERTURF Naomi S 760-941-5495 2
354 ● ASEBEDO Ricardo OO 4
358 WHITEHEAD James E 760-758-5624
364 ● JACKSON Bruce L 760-635-8580 2
368 ● MEJIA Abraham 760-414-9220 3

★ 1 BUS 42 RES 0 NEW

LUISENO CIRCLE DR
92061 PAUMA VALLEY

WEALTH CODE 1

X PAUMA VALLEY DR

32440 GROVES Richard 760-742-1196
32450 BORDEN Marvin T 760-742-3029
32477 ● DELION David 760-742-4219 0
32479 MARTIN Anthony W 760-742-3826 6
32507 ● BEEMAN Richard 760-742-0589 4
32510 ● REEVE Edgar H 760-742-3922
32511 ● REEVE Edgar 760-742-0834 2

X EL TAE RD

32515 GARDNER Jim 760-742-0254 +6
32518 LONDON Richard 760-742-3687 0
LONDON Richard 760-742-1154 0
32519 ● MORRISON Keith OO +6
32521 ● HESKIN Eugene OO +6
32525 ● STRANGE Stephen OO +6
32536 CHAMPLIN Marianne 760-742-2559 4
32539 ● MILLER W OO 0
32547 ● AMERICO CONTAINER INC 760-742-2480 4
32550 BADDELEY P 760-742-3615
32554 ● TURNER Timothy OO +6
32570 HEGARDT Robert 760-742-0059 1
HEGARDT Robert C 760-742-0077 1
32575 ● SHAW Jay OO 4
32579 ● WOJNICKI David OO 4
32583 CHAMPION William D 760-742-3853 4
● CROWE David OO +6
32587 ● THOMPSON Jill 760-742-4413 +6
32591 ● SWINEHART Douglas 760-742-2348 4
32622 RICHARDS Wm H 760-742-3548
32666 ● ANTHONY Thomas 760-742-1068 4
32674 ● GILTNER F OO 0
32688 ● GILTNER F OO 4
32747 ● EVERETT Dwight OO 4
32786 WOODWARD Michael 760-742-4227 4
32848 ● LARSON R B 760-742-4282e 8
32851 ABERNATHY Paul L 760-742-1542
ABERNATHY Paul L 760-742-2328
32889 ● OSTERKAMP Joe 760-742-0447 4
32958 PICKERING B 760-742-4399 3
PICKERING L 760-742-4399 3
32988 STENZEL John R 760-742-1059
32991 MULLEN S S Jr 760-742-3531
32990 ● JACOBS Joe K 760-742-1354 4
32995 LAUS Willa 760-742-3625
32997 MEIXLE Fred 760-742-1454 4
32999 ● FAUBER Bernard OO +6

★ 1 BUS 43 RES 8 NEW

LUISENO ST 92064
POWAY

WEALTH CODE 9

12823 ● ORTIZ Dan OO 0
12828 ● JACOBS Lesley OO 8
12832 XXXX OO
12835 ● ALLEN Geo A 858-487-0134

12841 FAWCETT Ronald F 858-485-6674
Jr
12842 ● DONGOG L OO 4
12847 ● LEIGHTON Joseph 858-675-0142
12848 ● GORDON Jeff 858-487-3634 3
● GORDON Jeff 858-487-4932 3
12853 ● AMIDEI James S 858-485-5098 3
12856 ● ROOKS Jan OO 4
12859 ● CARTY Shan 858-385-2250 3
12865 ● SWITZER N K 858-451-5035 9
● SWITZER P C 858-451-5035 9

X BENNY LEE DR

★ 0 BUS 14 RES 0 NEW

LUNA AVE 92117
SAN DIEGO

WEALTH CODE 3 6

X MONONGAHELA ST

2602 ● MULLER Mark 858-270-5566 9
2612 ● FRIEDMAN Judy 858-272-1511
2615 ● ELLIOTT Christopher OO 1
JENSON-ELLIOTT Cynthia 858-270-3757 4
2624 COLEMAN Jeffrey R 858-274-5375 4
2625 ● WINSMAN Jeremy OO +6
2626 ● ESPINOZA Rafael OO 0
2635 ● DEBROEKER Dawn OO 0
2642 ● LAMPLAND Martha OO 0
2650 ● CROCKETT Clayton OO 4
2662 ● JACKSON J J 858-272-2542
2665 XXXX OO
2674 ● CARNERIE Don C 858-273-2345
2677 BURROWS Brent W 858-561-2695 4
● DIMMESDALE Maynard OO 0
2705 XXXX OO
2710 XXXX OO
2725 ● WAKLEN Bert OO 4
2730 ● SMITH Nicholas 858-274-5164
● SMITH Nicholas K 858-483-2709
2741 ● MEEDER Norman OO 2
UNDERWOOD Linda 858-274-5557 1
2746 ● KOHL Kerry OO 8
2755 ● MANTHEI Mark OO 0

X EPINETTE AVE

2757 ● ESSER Wm B 858-270-9654
2770 DE LOACH Dolhe 858-273-1597 4
DELOACH Rene 858-273-1597 4
2775 ● HUMAERT Alan 858-270-7660
2775 ● DOUGHERTY Christopher OO 6
2783 TAYLOR Brian L 858-273-7251
2786 ● WILBURN Mary 858-483-5199 0
2791 ● GUTIERREZ Steven OO 0
KAHANG Evelyn 858-273-3521 +6
2794 ● MARRELLO Mark OO 4

X FARGO AVE

2801 ● TOCZYLOWSKI Gwen OO 0
2802 ● STIGERS Daniel OO 0
2806 ● HOLLENBECK Dennis OO 8
2810 ● TRIEGLAFF David 858-272-2501 2
2817 SWEENEY Thos L 858-274-1152e
2818 ● DOSE Michael OO 9
2826 XXXX OO
2830 ● FISK Chad 858-273-9002 4
● FISK Chad 858-273-9004 4
2834 ● ERICKSON Richard OO 0
MEDEMA Greg 858-274-0783 8
MEDEMA Sandy 858-274-0783 8
2842 BOSVERT Michael F 858-483-4363 3
2850 ● REDEN Gregory OO 4
2857 ● LO Tai OO 4
2858 XXXX OO
2865 ● PRINCE Greg OO 9
2866 ● MARTINEZ David OO 0
2873 XXXX OO

X GALLATIN WAY

2881 ● WILLIAMS Richard OO 0
2882 ● MCLAUGHLIN Ann OO +6
2889 ● HARRIS Maria Elsa 858-273-4487
2890 XXXX OO
2897 XXXX OO

X NAUGATUCK AVE

2903 XXXX OO
2911 ● CALABRESE Philip 858-483-0135
● CALABRESE Philip 858-483-2661
2912 ● SULLIVAN Michael OO +6
2919 ● CALABRESE Philip 858-273-6548
2920 BOSCH H J 858-272-3473
2929 ● LEEPER Lindsay OO 0
2935 PASEKA Jack 858-272-0107
2936 ● MISIUK Walter OO 0
2940 ● GUERRERO Arturo OO 4
SKRIVA James 858-273-4809 8
2941 ● WOOD Tanca OO 8
2947 ● KWA Gregory OO 0
2948 ● NIEVERGELT Caroline OO +6
2955 TRUSK Lilian 858-273-6121 4
2956 ● HEREDIA R OO 8
2962 ● CALLIAN James OO 0
KERSTETTER Luke 858-273-7340 4
2963 WINFIELD Palmer 858-273-4326
2970 ● FELLESON Ben OO 8
2971 ● MITCHELL Patrick 858-490-2136 4
2978 ROBINSON Richard 858-274-7249 4
● WEBER Albert OO 0
2979 ● GOGLIN Nancy OO 1
2986 ● SCHWID Karl OO 0
2987 ● TRUSK Howard OO 0
2994 ● ASH Leonard Dennis 858-272-6870 7

X HIDALGO AVE

3001 FISCHER R 858-483-7091 +6
3004 XXXX OO
3006 OCASIO Rene 858-274-4352 +6
3011 GUERRERO Rosita 858-273-3455 4
★ MEETING PROFESSIONALS INC 858-270-2103 2
● SCHWARTZ Frederick OO 4
3014 ● FISHER Walter OO +6
3015 XXXX OO
3021 ● CLAUSEN Carl OO 4
3023 PENRY Jacky 858-274-1577 4
3024 AVILA Juana 858-273-3863 4
3025 ENGLERTH J 858-274-4795 4
3031 XXXX OO
3033 OSPLATS Paula 858-272-2155 4
3034 ● EUROD Nancy OO 2
3036 XXXX OO
3041 ● CAJIDILLO Louis OO 4
3042 CAJIDILLO Louis G 858-272-1983
3044 XXXX OO
3045 LITINSKY Osmar 858-581-1434
3051 XXXX OO
3054 BERGHOEFER Florence 858-274-2321
3056 BLASHGAME Gilbert 858-581-2159 4
3061 XXXX OO
3063 XXXX OO
3064 ● ALBURQUERQUE Julio OO 2
HERNANDEZ Esteban 858-274-3518 4
3066 ALBURQUERQUE Julio 858-483-8314 4
3071 SZABO Peter 858-272-6146 +6
● TOMKINSON Angelica OO 0

3073 XXXX OO
3074 ● BUELTERMAN Greg OO 8
3076 SIROTA Kenneth C 858-272-0645 4
3081 XXXX OO
3083 XXXX OO
3084 ● PHILIPS Mary OO 0
RICOLE Kelly 858-272-4647 4
3102 ● SCHARER Dennis OO 8
3103 ● GONZALEZ Melissa 858-483-6435 8
3111 ● THIBODEAUX Lisa OO 0
3112 NASH Paula 858-273-0452 4
3113 XXXX OO
3121 CUEVAS Manuel M 858-270-1404 4
3122 NEEDHAM M 858-272-2939
3123 XXXX OO
3131 XXXX OO
3132 KNAPP Gary 858-581-1764 4
3133 XXXX OO
3141 XXXX OO
3142 ● MINOO Farhad OO 4
3143 KUGLER N L 858-272-7045
3144 WOODHOUSE Brandon 858-721-3667 +6
3151 ALDELAMY Wael 858-274-4778 4
ALDELAMY Wael 858-490-0205 4
3152 XXXX OO
3153 XXXX OO
3154 PADILLA Andrea 858-483-5142 3
3151 XXXX OO
3152 XXXX OO
3153 HARRISON Scott T 858-270-5757 4
3154 ● BOWMAN David A 858-273-1195 2
3171 ● DURIEL Wenceslao OO 4
GARCIA Luis 858-483-1738 4
3172 XXXX OO
3173 SEPULVEDA Teresa 858-273-3728 4
3174 XXXX OO
3182 LAU Shu L A 858-273-3821 +6
3184 XXXX OO

X JUTLAND DR

X REGENTS RD

X CLAIREMONT MESA BLV

X LAKE FOREST AVE

3248 ROSE Jane R 858-273-3571
3249 ● MORIN Richard OO
3250 ROSE Roger 858-483-7831 4
3251 XXXX OO
3256 ● NGUYEN Cuong OO +6
3257 LUKTON B Damon 858-581-5808 +6
3258 XXXX OO
3259 ESTRADA Mary 858-270-9342 4
3264 ● FERRERA Sandy OO 4
3265 HARRISON Sandra 858-581-2984 4
● SWINSON Jack OO 4
3267 SMITH Rosa-Hana 858-273-5165 4
3272 ● PETERSON Richard L 858-270-1903
3273 GONZALES Jeremias S 858-274-6363 2
3274 XXXX OO
3275 XXXX OO
3278 ● WINDAL Edward OO 8
3281 CYR Kelly 858-274-5305 4
● HAWORTH David OO 1
3283 XXXX OO
3284 BRUCE Frank 858-270-7329 4
● SENTZ Ellen OO
3286 XXXX OO
3287 ● GARCIA Eduardo OO 4
3288 XXXX OO
3290 XXXX OO
3292 MAYORAL Paul 858-273-7258 +6
3295 ● KOON Gerhard OO 3
3296 DEMERS C 858-270-2732 +6
3297 XXXX OO
3298 XXXX OO
3304 XXXX OO
3305 ● MIONE Stefano OO
SOTO M 858-274-3432 +6
3306 XXXX OO
3307 VILLANUEVA Adelina 858-270-1729 +6
3312 ● DUENAS Alfred OO
3314 JAIME I 858-581-5206 +6
3315 ● WALL Cynthia OO 4
3317 ZUPKAS Jeannette 858-273-1728 +6
3320 ● JANNESART Marcus OO 0
LUC Ch Michelle 858-273-7788 +6
3322 ESQUER Fernando 858-581-3156 +6
3323 ● HAHN David OO 9
3325 XXXX OO
3330 BURGOS Sara 858-272-2725 4
3331 ● HAHN David OO 9
3333 XXXX OO
3338 LAVOIE Ann 858-270-1127 +6
3339 ● HARRIS Nina OO 2
3340 LUNA Richard 2ND 858-581-1524 +6
3345 ● DAHLBERG Leonard OO 2
3347 ● KEEGAN Edward OO 0
3348 SAMMON Craig 858-490-1027 4
3349 COLE L 858-270-4702 2
3354 XXXX OO
3355 ● ROSE Robert OO 3
3356 XXXX OO
3357 HOFFMAN Steven 858-270-3687 4
3362 NICHOLAS Gary 858-483-3582 4
3363 ● PEREZ Rosario OO 4
3364 ELMS Mary B 858-272-4644
3365 RENDON Leonore 858-270-7884 +6

X MORAGA AVE

3403 ● BREWER Richard OO 7
HOWLAND Rachel 858-272-0840 4
3404 ● NGO Son OO 1
TRUONG Canh B 858-270-1479 +6
3405 XXXX OO
3406 XXXX OO
3411 HARDCASTLE Christian 858-273-1358 4
● PALMINTERI Stefano OO 1
3412 ● OGILVIE Michael OO 3
3413 KIERLE Franck 858-273-3059 +6
3414 XXXX OO
3419 NUNEZ Gilberto 858-270-9403 4
● SCHWARTZ David OO 0
3420 XXXX OO
3421 XXXX OO
3427 ● LITTLEWOOD Christopher OO 4
3435 BATTISTUZ Tammy 858-274-7141 +6
● GODDARD John OO 1
3437 GODDARD John D 858-581-1760 3
3440 ● KIESLE John OO 1
3442 LANDIS Tom 858-483-3130 4
3443 ● MORIN Richard OO

X NORWALK AVE

3450 ● STEVENSON John OO 8
3451 ● FOWLER Leah OO
3453 XXXX OO
3459 ● HERNANDEZ Carmen OO
3461 XXXX OO
3462 XXXX OO
3467 ● HERNANDEZ Carmen OO
3469 XXXX OO

X OTOMI AVE

3500 ● GRANT Shelly OO 7
3505 XXXX OO
3508 XXXX OO
3511 ROJAS Yolanda 858-581-1383 +6
3512 ● TUEY Min OO 8
3515 ● COOPER Paul OO 0
3517 OFSTAD Michael 858-272-1752 4
RUIZ Julio Cesar 858-272-5922 4

3520 ● DERIJ Z Manuel OO +6
RUIZ Manuel 858-581-2231 +6
3521 ● NUNEZ Jose OO 8
3523 MERCED Serenando 858-270-3720 +6
3527 CASTRO L S 858-272-4751 +6
● ROYA Andrew OO 4
3528 ● ALDERTON Anthony OO 0
3529 XXXX OO
3530 ● FRECHETTE Christopher OO +6
3535 FRECHETTE Christopher 858-274-7052 4
3536 ● SALVADOR Sergio 858-731-3210 4
3539 ● MOLINAROLO Bruno OO
3541 XXXX OO
3545 ● STEINBACH Joseph OO 8
3547 XXXX OO
3552 ● FINDLAY Wayne OO 4
3553 ● FARNES Vera 858-581-3552 8
3556 ● FARNES Gabriele 858-581-3576 9
3560 ● MUNSON Donald OO 0
3561 MIRANDA Valentin 858-581-3550 +6
3563 XXXX OO
3568 ● TWEEDIE Henry J 858-272-2891
3569 XXXX OO
3571 XXXX OO
3576 BOWMAN Sarah A 858-274-7697 4
3584 ● DENTON Kerry OO 4

X POCAHONTAS AVE

3605 ● SANCHEZ Roberto OO 0
3615 XXXX OO
3625 ● MACIELEWSKI Andrzej OO 0
3628 ● BUNFORD Rodney OO 1
3635 ● LEE Anthony OO 3
3642 ● FERNANDEZ Luis OO 0
3645 CORTEZ Vera E 858-272-2582 4
● GONZALEZ Victoria A 858-273-4137 3
3664 ● FLORES Romina OO 2
3665 ● KRUSS Sid 858-273-9025
3665 ● SNOWDEN Harry M 858-274-3542

X COCONING WAY

★ 1 BUS 290 RES 32 NEW

LUNA CT 92083 VISTA

WEALTH CODE 3

1005 ● LUNA Ruben 760-758-5998 3
1011 ● LUNA Cynthia OO 4

X EAST DR

★ 0 BUS 2 RES 0 NEW

LUNA DE MIEL 92067
RANCHO SANTA FE

WEALTH CODE 9

PIO BOXES ONLY
NO DELIVERY BY ADDRESS

17427 ● VELKY Thomas OO 0
17414 ● MAHR Leslie OO 0
17430 ● WILLIAMS Joseph OO 0
17437 ● MARTIN Roger OO 4
17446 ● WEIDMAN Walter 858-758-8227 4
17456 ● RICE Stanley 858-756-3457 4
17473 ● NEDGY Ramon 858-759-2605 4
17487 ● BERGMANN Susan 858-756-4790 8
17507 ● REHER James OO +6
SMITH Alyn 858-759-8610 4
17526 ● ETCHIE Samuel OO 4
WISE Allyson 858-759-7490 1
17530 ● CHOREALIAS Jakob OO 4
17550 ● WILLIAMS Jeffrey 858-756-9486 0
17570 ● VANOPPEN Alice 858-759-3249 1
● VANOPPEN Alice 858-759-3266 1

X DEL DIOS HWY

★ 0 BUS 16 RES 1 NEW

LUNA DR 92067
OCEANSIDE

WEALTH CODE 3 4

501 ● SIERRA Rosalio OO 2
502 ● PALMER Jas O 760-433-0212
505 ● ROBINSON Wally OO 4
510 XXXX OO
514 ● ROMERO Luis OO 0
515 SLICKE J 760-757-7795
517 ● CANTERA Isidro OO 2
521 CASTANEDA Dina 760-968-0029 +6
● MENDOZA Arthur OO 9
522 ● JACO Jason 760-231-6204 4
525 ● CHAVEZ Luis OO 4
526 OXNER Robt L 760-433-1158

X SOL DR

534 ● ROCKEY R H 760-967-1539 2
535 ● STEVENSON Robert OO 0
WILLIAMS Susan 760-722-4210
538 ● ROCKEY Randall OO 7
539 ● ROSAS Jaime 760-757-3401 3
542 ● GILL Charles OO 3
543 ● ZARATE Jesse OO 0
547 ● VERGARA Rolando OO 2
548 ● FAIMALE John 760-439-8930 2
552 XXXX OO

X SIESTA DR

4801 HARPER James V 760-754-5222 0
4802 ● GIBSON Nora OO 0
4809 XXXX OO
4807 ● MAYA Gerald 760-433-1181
4811 ● VILLARDMAN Manuel OO 0
4812 ● DOLE Charles OO 4
4815 ● MOLANO Eleazar OO 4
SANTIAGO Benito 760-757-5792 +6
VEGA Susana 760-722-7675 4
4819 ● WHITE Warren F 760-757-3968
4820 ● JACKSON Michael OO 0
4823 ● SOTELO Jose OO +6
4826 ● MARTINEZ Salvatore 760-722-8241 4
4827 ● BLOCK Sano OO 8
4831 ● MULLENS Dennis OO 7
WALTON Renee 760-421-2141 3
4832 ● RAMIREZ Honorio OO +6
4833 ● WILKINSON Floyd OO 8
4839 ● ORTIZ Rick F 760-754-2200 2
4841 XXXX OO
4842 ● ARREOLA Victor OO
RAMOS Benito 760-754-8190 4
4845 ● OLAYVAR Herbert OO 0
4846 ● KOZINA Mark OO 0
4848 ● HERNANDEZ Roberto OO 0
4849 ● MACLACHLAN Alex OO 0
4852 ● ESTELA Rodolfo OO 4
4853 ALATRISTE Jorge 760-722-8598 +6
4856 STEPP Wm F Sgt Maj 760-757-8435
4857 PORTAL George 760-757-3069

X REDONDO DR

4902 ● RUIZ John 760-722-0527
4904 KAISER Christopher 760-722-3384 +6
● SNODGRASS Cary OO 9
4906 ● SNODGRASS Cary OO +6

4908 LUJAN Noemi 760-433-2759 +6
● LUNA Pedro OO +6
VEGA Irma 760-967-1660 +6

X ROJA DR

4909 ● CASTRO Chaco OO 4
4910 ● SANCHEZ Pablo OO 4
4911 ● QUINTERO Mario OO 0
4912 ● ZAMORA Steve 760-967-6244 1
4914 ● REYES Genaro OO 8
4915 ● COOKE James OO 8
4916 ● BROWN Rene 760-433-2158 0
4918 ● BREHM Frank 760-754-8539 2
4919 ● MARTINEZ Carlos 760-721-1590 4
4920 ● LOWE James OO 0
WALKER D 760-439-8583 4
4921 GARCIA Chris 760-757-7478 4
● RODRIGUEZ Hugo OO 3
4922 PAGAROO Cristina 760-721-9489 4
● PAJARDO Juan OO 3
4923 ● BARRERA Tricyland 760-757-8043 3
4924 ● BRINGHURST David OO 0
4925 ● FAUST Melvin OO 0
4926 RICHARDSON Terry 760-967-1587 4
4927 ● CORTEZ Juan OO 4
4928 XXXX OO
4929 ALSTIN Lawrence 760-721-6751 4
4930 ● DELLINGER Joe OO 0
4931 ● SNYDER Joseph OO 1
4932 MEYERS J 760-757-4887
4933 ● BERNAL Nicolas 760-722-5553 9
4934 ● FLORES Rogelio 760-722-3585 4
4935 ● CHAVEZ Raul 760-754-8750 4
4936 COK Donald 760-757-4767
4937 ● ALARCON Jerry OO 0
4938 ● BELFIELD Ruth OO 3
4939 ● ESTRADA Maria OO +6
SOTO Maria 760-967-5515 +6
4940 DIAMOND Timothy 760-721-6601 1
● TERRAZAS Fabiola OO 2
4941 ● SACA Frank P 760-757-4485e
4942 ● DANIELS Connie OO 0
4943 ● FIGUEROA Ignacio OO +6
4944 ● MOORE Christine OO 8
4945 ● GARCIA Fernando 760-721-3211 8
4946 LORIO Joyce K 760-757-6974
LORIO Louis C 760-757-6974
4947 ● CARRAZCO Hildeberto 760-757-5838 2
4948 ● ESTRADA Juan OO 0
4949 ● PLAYA Romulo OO 4
SANCHEZ Thomas 760-754-9615 +6
4950 ● FAUST Melvin OO 0
4951 ● ZURVALEC Tovoko OO 0
4952 ROJAS Roque 760-966-1047 2
● ROMERO Romulo 760-439-0425 7
4953 ● ROCHA Joaquin OO 8
4954 ● SHOEMAKER Norma OO 0
4955 ● GARAVITO Dorothy OO 8
4956 ● LOPEZ Antonio OO 4
MARTINEZ Otilia 760-721-9128 4
4957 GONZALEZ Alberto 760-968-5813 4
● HERNANDEZ Orlando OO 3

X N REDONDO DR

★ 0 BUS 116 RES 14 NEW

LUNA MEDIA (04)
92127 SAN DIEGO

14564 ● KANDA C 858-759-4342 4
● RENEE K L C 858-756-2024 4
14568 ● WINKLER Page OO 3
14562 XXXX OO
14565 ● HELLER Michael OO 3
14570 ● AGHASADEGHI Arakaler OO +6
14574 ● YOUNESS Zahi OO 3
14575 ● BAKER Scott OO 3
14582 ● GALANTE Sara T 858-756-3195 +6
14585 ● CONTRERAS Jose OO 3
14587 ● WILLSON David 858-756-7187 4
14590 ● BANA Mohammad OO 3
RANGEL Miguel 858-756-3291 +6
14594 ● ALLEN Robert OO 3
● AMERIA CORP 858-759-9181 4
14595 XXXX OO
14598 ● ROSS Alan Nancy 858-756-9003 3
14602 ● ROSSWORM Terry OO 3
14606 ● HARGADEN Sean OO 3
14612 ● GARCIA J 858-759-1963 0
14614 ● GODZIK Adam 858-759-9858 3
14615 ● BERTRAN Leonardo OO 4

★ 2 BUS 20 RES 3 NEW

LUNA VISTA DR 92025
ESCONDIDO

WEALTH CODE 3

X CHESTNUT ST

702 ● FLOYD Bert OO ● 3
715 ● SCHUBLE Raymond 760-745-3985
725 ● ROBERTS Richard OO 0
738 ● MARTINSON Alfred OO 0

X LUNA VISTA PL

756 KNUDSEN Robt M 760-746-4275
810 ● CASTRO George E 760-746-9401 0
● CASTRO Imelda 760-746-4725 0
● CASTRO Manuela 760-735-8605 0
840 ● SMITH James OO 0
843 XXXX OO
845 ● WILSON Jeremy OO 4
850 LAJOIE Russell D 760-746-9082
865 ● PAUM Karl OO 4
880 ● BULLEN Leonel OO 0
891 ● DUBSKI John OO 0
897 ● MARTINI Mark OO 8
903 ● WARREN James OO 0
936 ● PARKER J OO 4
940 ● DELEON Alan OO 0
944 ● EASTWOOD C OO 4
956 XXXX OO
959 VERDUGO Ted Sr 760-745-2601
964 ● TAUPER Paul OO 0
965 ● RICO Thomas OO 3

★ 0 BUS 24 RES 0 NEW

LUNADA PL 92128
SAN DIEGO

WEALTH CODE 8

12808 XXXX OO
12817 CLARK Kathleen 858-485-5328 4
SEVERSON Andrew 858-485-6885
SEVERSON Andrew J 858-487-6830
Dds
12822 ● GIORGETTA Timothy OO 1
12825 FELSINGER Donald 858-673-6584
FELSINGER Greg 858-673-6577
FELSINGER Mike 858-673-6577
12833 ● MUCKENHIRN John OO 3
12841 BEWER Robert 858-451-3022 +6
12849 ● POURHOSSEINI Ali OO 1
12850 ● FOWLER Mark 858-674-8247 8

X BRAVADA CT

12888 ● SULLIVAN John OO 4

12895 ● LOVELL Robert 858-487-3210
12898 ● SULLINS Steve 858-487-5183

X POLVERA DR

★ 0 BUS 15 RES 1 NEW

LUNADA PT 92128
SAN DIEGO

WEALTH CODE 8

18727 SOLL L S 858-451-2729
SOLL Lauren S 858-451-3299
18728 MALISZEWSKI Diane 858-675-1507 4
MASHBURN Wesley 858-451-3856 3
18718 ● MOLDOVAN Stefan 858-451-2380 4
18729 ● MATTOON Terence 858-451-1342
18737 ● VENNWATSON Edward OO 0
18758 XXXX OO
18767 ● BULKIN Aristeh OO 4
18797 ● MESSIAN Nissa OO 4

★ 0 BUS 10 RES 0 NEW

LUNDY LAKE DR 92029
ESCONDIDO

WEALTH CODE 7

X HIGHLANDS WEST DR

2025 ● KESTERSON James OO 0
2044 ● SMITH Steven OO 3
2061 ● GOLPFERT Thomas OO 4
2063 ● MCELFRESH Arthur OO 3
2075 ● DADSETAN Mansour OO 0

X TIOGA LAKE DR

2120 ● STEPHENS Mike OO 0

X EAGLE LAKE DR

2147 ● POL SHUK Marjorie E 760-781-3541 4
● POL SHUK Paul 760-781-3541 4
2151 ● GALLIHER Steven J 760-747-3665 4
2156 ● STEPHENS David OO 0
2180 ● GIUSTINO George J 760-746-6127 1
2183 XXXX OO
2224 ODEA Mary 760-756-2869 4
2225 ● WADIA Charles OO 0
2229 ● CANAZ-YAZDI Kourosh OO +6
2233 ● SHINN Richard OO 4
2241 LUCIO Irma 760-746-1521 4
2245 SINGH Frank 760-743-4777 +6
2255 ● WALLACE Robert OO 2
2258 ● DANA James 760-480-5680 0
2260 ● BARRY Patrick J 760-485-6434
CAHILL Lynn J 760-493-5130
2272 ● LEWIS George OO 4
2277 ● MCCLORY Joseph OO +5
2292 XXXX OO

★ 0 BUS 25 RES 2 NEW

LUNDY WAY 92028
FALLBROOK

WEALTH CODE 4

1412 ● BETZ Martin 760-451-0447 0
1415 ● ANDERSON Cynthia 760-728-2229 4
1423 ROBINSON Edward 760-723-3001
1430 FORMAN Lee C 760-723-3874
GARRETT Judy 760-723-3859 4
1445 ESTRADA Michael 760-731-4860 4
● GARZA Eduardo OO 4
1450 ● HIGGISON Marjorie OO 0
WEBB L Valerie 760-731-1455 9

X S STAGE COACH LN

★ 0 BUS 9 RES 0 NEW

LUNETA DR 92014
DEL MAR

WEALTH CODE 9

X 11TH ST

1103 ● SHERMAN Glenn OO 0
1107 ● ANDERSON Kenneth G 858-755-3618 3
● ANDERSON Kenneth G 858-723-1402 3
1109 ● BLAKELY Tom 858-259-5899 0
● BLAKELY Tom 858-259-5775 0
● BLAKELY Tom 858-259-5869 0
1110 ● GROVE Douglas OO 4
1123 ● OTCHIS WAYNE CPA 858-763-2784 +5
● OTCHIS Wayne P 858-763-2730 4
1142 XXXX OO

X 12TH ST

1141 ● FISHER Gene S 858-350-8713 4
1149 XXXX OO
1151 ● HALVERSON B 858-792-2337 4
1209 ● MATHISON David OO 0
1216 ● FRANCIS John OO 0
1225 XXXX OO
1235 HALLORAN William 858-755-3160
1234 ● POPP Dennis OO
1238 XXXX OO

X CUCHARA DR

1252 ● WILLSEY Michael OO 4
1253 ● SUNDQUIST Robert OO 1
1255 KOSS Helen 858-755-4915 +6
1260 ● BREAN Michael OO 8

X VAN DYKE AVE

1240 XXXX OO

X 13TH ST

1307 ● MONAHAN David OO 0
1313 ● CARY Harry OO 8
1333 XXXX OO

X 14TH ST

X CAROLINA RD

1407 ● HASSE J 858-755-3389 2
● HASSE R 858-755-3389 2
1410 ● MUKERJI Chandra OO 0

X PARRISH LN

1439 ● TIERNAN Michael 858-794-4878 4
1455 ● ANSON Ronald 858-720-5500 1
● ANSON Ronald 858-720-9004 1

X 15TH ST

1518 ● MCDONALD Kathryn OO 0
1524 XXXX OO
1525 TAVERNA Felix 858-793-1396 +6

X ZUNI DR

1548 VAN HIJ 858-755-4571
VANBOXTEL M 858-481-6426

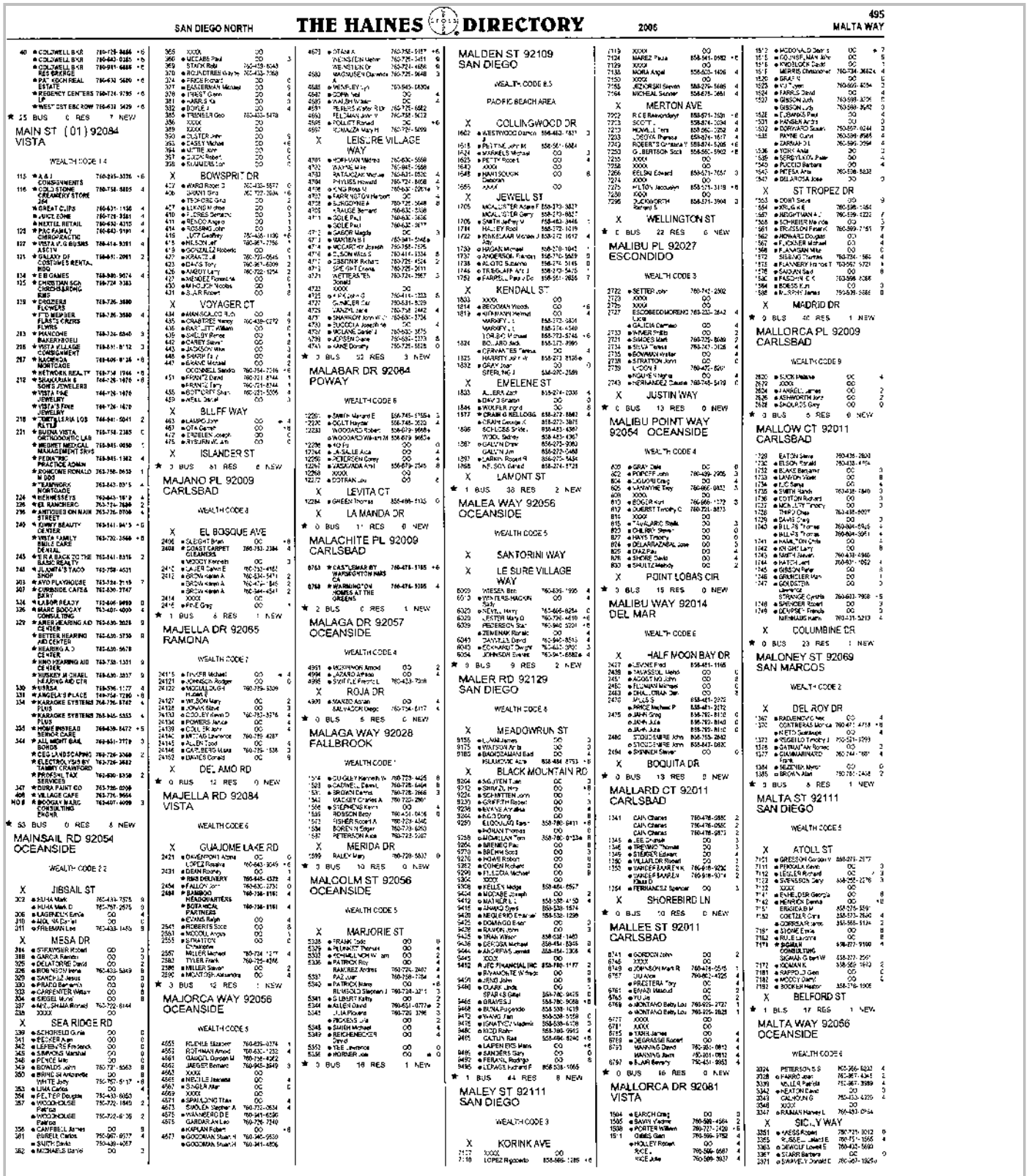
X STRATFORD WAY

1555 ● SCHWAB Joe 858-752-5088
1568 ● ZEYTIN Fusun OO 0

©DO NOT MAIL

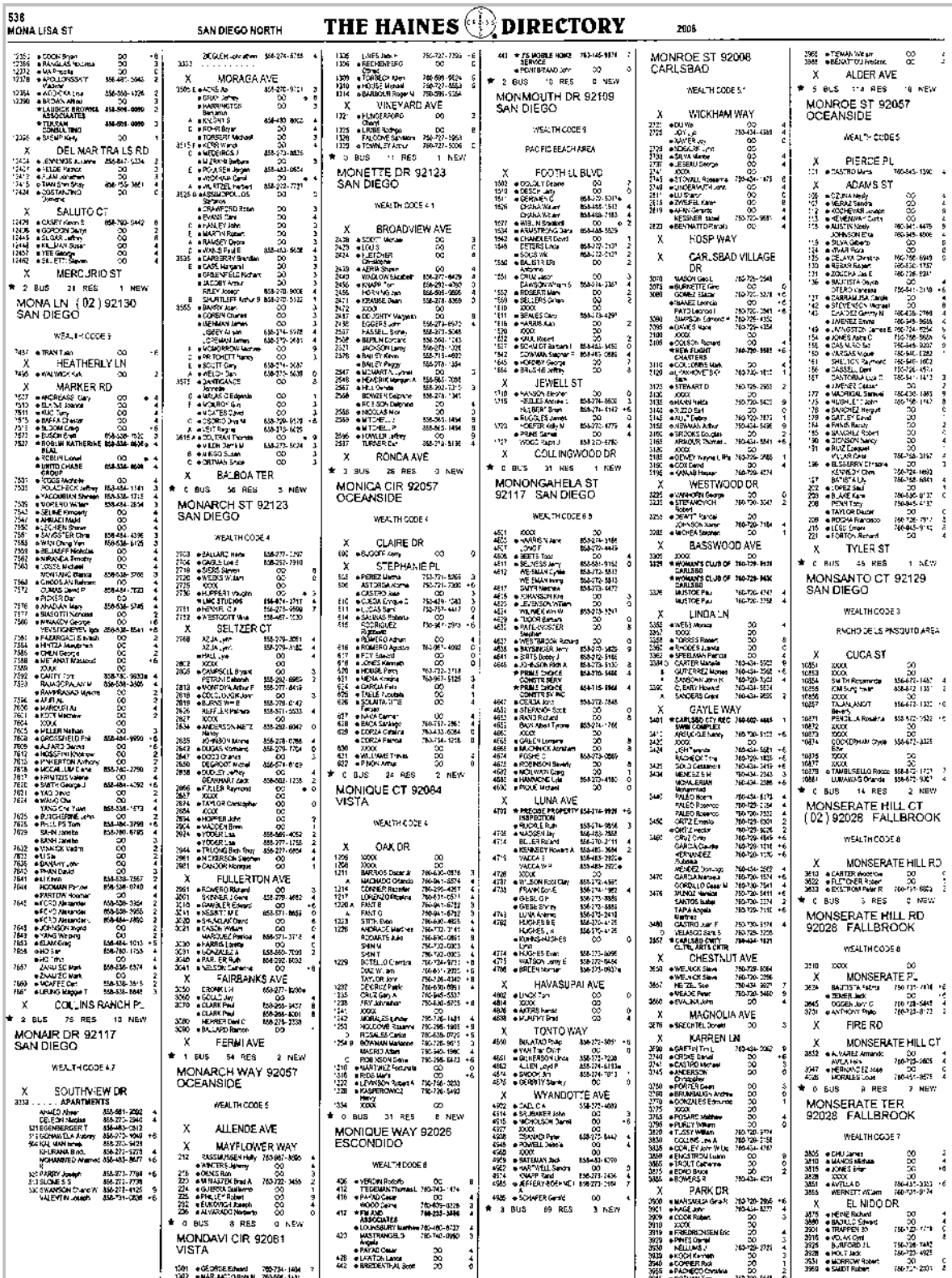
TP	Adjoining	Source
-	✓	Haines Company, Inc.

MALAGA DR 2006



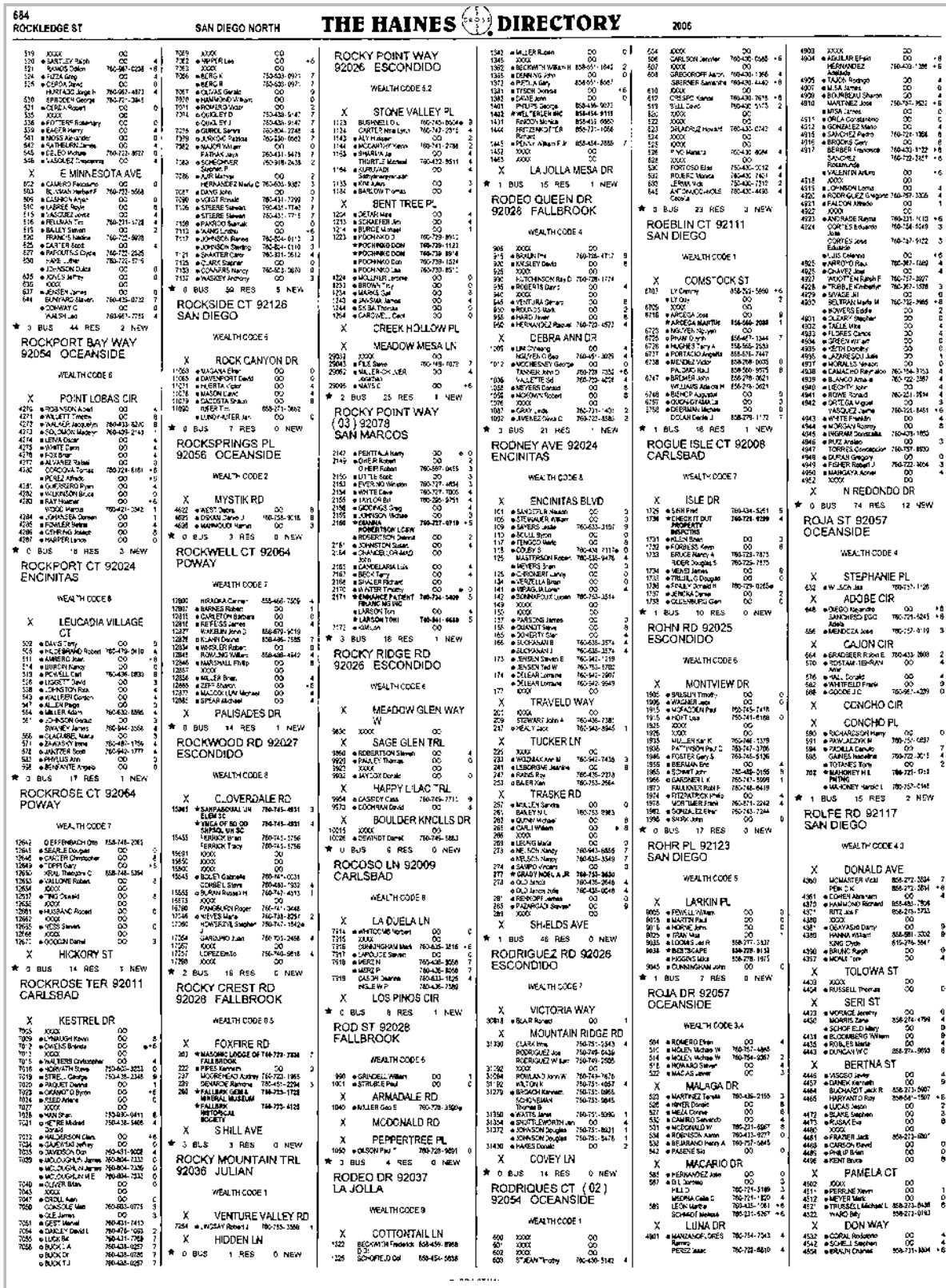
TP	Adjoining	Source
-	✓	Haines Company, Inc.

MONICA CIR 2006



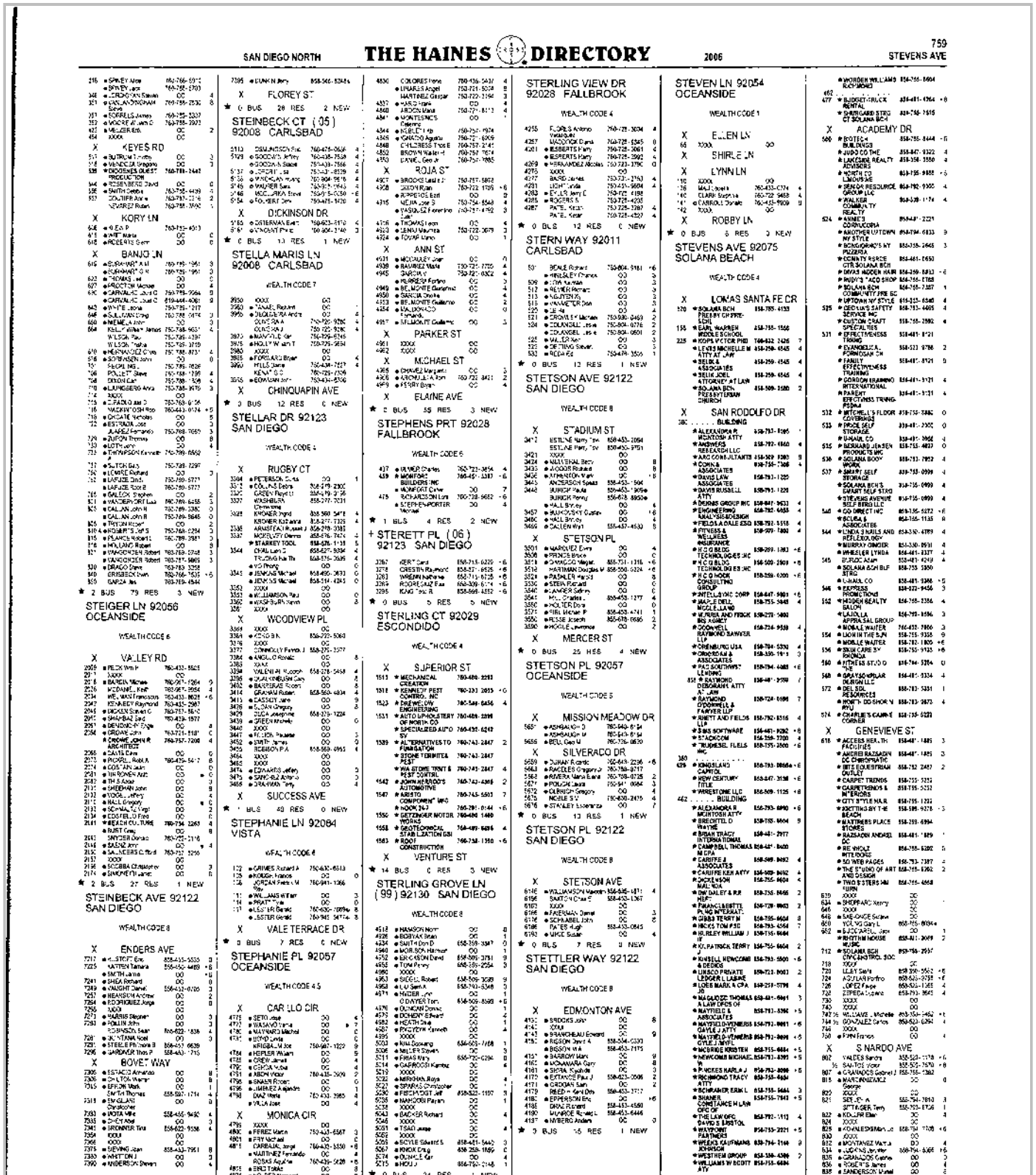
TP	Adjoining	Source
-	✓	Haines Company, Inc.

ROJA DR 2006



TP	Adjoining	Source
-	✓	Haines Company, Inc.

STEPHANIE PL 2006



SAN DIEGO NORTH — THE HAINES DIRECTORY — 2006 — 759 STEVENS AVE

STEIGER LN 92056 OCEANSIDE

WEALTH CODE 6

X VALLEY RD

STEINBECK AVE 92122 SAN DIEGO

WEALTH CODE 8

X ENDERS AVE

X BOVET WAY

X FLOREY ST

STEINBECK CT (05) 92008 CARLSBAD

X DICKINSON DR

STELLA MARIS LN 92008 CARLSBAD

WEALTH CODE 7

X CHINQUAPIN AVE

STELLAR DR 92123 SAN DIEGO

WEALTH CODE 4

X RUGBY CT

X WOODVIEW PL

X SUCCESS AVE

STEPHANIE LN 92084 VISTA

WEALTH CODE 6

X VALE TERRACE DR

STEPHANIE PL 92057 OCEANSIDE

WEALTH CODE 4.5

X CARILLO CIR

X MONICA CIR

STEPHENS PRT 92028 FALLBROOK

WEALTH CODE 6

X ELAINE AVE

STERLING CT 92029 ESCONDIDO

WEALTH CODE 4

X SUPERIOR ST

STERLING GROVE LN (99) 92130 SAN DIEGO

WEALTH CODE 8

STERLING VIEW DR 92028 FALLBROOK

WEALTH CODE 4

STERN WAY 92011 CARLSBAD

STETSON AVE 92122 SAN DIEGO

WEALTH CODE 8

X STADIUM ST

X STETSON PL

X MERCER ST

STETSON PL 92057 OCEANSIDE

WEALTH CODE 5

X MISSION MEADOW DR

X SILVERADO DR

STETSON PL 92122 SAN DIEGO

WEALTH CODE 8

X STETSON AVE

STETTLER WAY 92122 SAN DIEGO

WEALTH CODE 8

X EDMONTON AVE

STEVEN LN 92054 OCEANSIDE

WEALTH CODE 1

X ELLEN LN

X SHIRLE LN

X LYNN LN

X ROBBY LN

STEVENS AVE 92075 SOLANA BEACH

WEALTH CODE 4

X LOMAS SANTA FE DR

X SAN RODOLFO DR

X ACADEMY DR

X GENEVIEVE ST

X S NARDO AVE

APPENDIX E

REGULATORY RECORDS DOCUMENTATION

4991 Macario Dr
4991 Macario Dr
Oceanside, CA 92057

Inquiry Number: 06693842.2r
October 07, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4991 MACARIO DR
OCEANSIDE, CA 92057

COORDINATES

Latitude (North):	33.2559750 - 33° 15' 21.51''
Longitude (West):	117.3040330 - 117° 18' 14.51''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	471680.1
UTM Y (Meters):	3679514.2
Elevation:	89 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640252 MORRO HILL, CA
Version Date:	2012
South Map:	5641318 SAN LUIS REY, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
4991 MACARIO DR
OCEANSIDE, CA 92057

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	PACIFICA ELEMENTARY	4991 MACARIO STREET	ENVIROSTOR, SCH, CERS		TP
Reg	CAMP PENDLETON MARIN		DOD	Same	4191, 0.794, NW
Reg	CAMP PENDLETON MARIN	CAMP PENDLETON MARIN	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG, LUCIS,...	Same	4398, 0.833, NW
2	ADRIANA READY	446 W. REDONDO DR.	RCRA NonGen / NLR	Higher	206, 0.039, South
A3	MARGARITA FRIAS	4940 SIESTA DR	RCRA NonGen / NLR	Higher	324, 0.061, SSE
A4	CURT PRICE	4937 SIESTA DR.	RCRA NonGen / NLR	Higher	378, 0.072, SSE
5	KARIN CAUSEY	445 WEST REDONDO DRI	RCRA NonGen / NLR	Higher	425, 0.080, SSW
A6	LANIE PARILLA	4946 ROJA DRIVE	RCRA NonGen / NLR	Higher	458, 0.087, SE
7	MEGAN MANSYUR	567 GOLD DRIVE	RCRA NonGen / NLR	Higher	569, 0.108, ENE
B8	GARCIA JAMES & GABRI	4929 SIESTA DR	RCRA NonGen / NLR	Higher	592, 0.112, SSE
9	EDWARD FOY	617 MONICA CIRCLE	RCRA NonGen / NLR	Higher	733, 0.139, North
10	STANLEY LASZCZYK	4909 VERDE DR	RCRA NonGen / NLR	Higher	798, 0.151, South
B11	TAMIKO SGUNA	4922 SIESTA DR.	RCRA NonGen / NLR	Higher	812, 0.154, SSE
C12	CHRIS TINOSO	645 ADOBE CIR	RCRA NonGen / NLR	Lower	887, 0.168, NNE
D13	7-ELEVEN STORE 20342	487 VANDEGRIFT BLVD	RCRA NonGen / NLR	Higher	951, 0.180, ESE
D14	7-ELEVEN FOOD STORE	487 VANDEGRIFT BLVD	UST	Higher	951, 0.180, ESE
D15	7 ELEVEN FOOD STORES	487 VANDEGRIFT BL	CERS HAZ WASTE, CERS TANKS, EMI, CERS	Higher	951, 0.180, ESE
D16	7-ELEVEN STORE #2034	487 VANDEGRIFT	LUST, ENF, HIST CORTESE, CIWQS	Higher	951, 0.180, ESE
D17	7-ELEVEN FOOD STORE	487 VANDERGRIFT	LUST, CPS-SLIC, San Diego Co. HMMD, HIST UST, CERS	Higher	956, 0.181, ESE
18	SARA MORRIS	4945 STEPHANIE PL	RCRA NonGen / NLR	Higher	1073, 0.203, NE
D19	7-ELEVEN FOOD STORE	487 VANDERGRIFT BLVD	SAN DIEGO CO. SAM, SWEEPS UST, Cortese, SAN DIEGO...	Higher	1103, 0.209, ESE
C20	BEYOND PROPERTY MANA	670 ROJA DRIVE	RCRA NonGen / NLR	Higher	1113, 0.211, NNE
21	NORTH RIVER VILLAGE	490 VANDEGRIFT BL	LUST, SAN DIEGO CO. SAM, Cortese, SAN DIEGO CO...	Higher	1180, 0.223, ESE
22	HENRY RUIZ	556 ARTHUR AVENUE	RCRA NonGen / NLR	Higher	1272, 0.241, East
23	MONARCH POINTE	NONE N DOUGLAS DR	CPS-SLIC, CERS	Lower	1814, 0.344, WNW
24	MORROW HILLS ELEMENT	EL MIRLO DRIVE	ENVIROSTOR, SCH	Higher	2553, 0.484, NNE
25	DEL RIO ELEMENTARY	5207 EAST PARKER STR	ENVIROSTOR, SCH, CERS	Higher	2725, 0.516, ENE
26	MURRAY BRIDGE MIDDLE	FRAZEE ROAD/GARDENIA	ENVIROSTOR, SCH	Lower	3152, 0.597, South
27	NORTHEAST VALLEY HIG	255 STALLION DRIVE	ENVIROSTOR, SCH, CERS	Higher	4457, 0.844, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PACIFICA ELEMENTARY 4991 MACARIO STREET OCEANSIDE, CA 92057	ENVIROSTOR Facility Id: 37820031 Status: No Action Required SCH Facility Id: 37820031 Status: No Action Required CERS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

RCRA-VSQG ---- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System
US ENG CONTROLS ---- Engineering Controls Sites List
US INST CONTROLS ---- Institutional Controls Sites List

Federal ERNS list

ERNS ---- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory

IHS OPEN DUMPS - Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL - Delisted National Clandestine Laboratory Register
HIST Cal-Sites - Historical Calsites Database
CDL - Clandestine Drug Labs
San Diego Co. HMMD - Hazardous Materials Management Division Database
Toxic Pits - Toxic Pits Cleanup Act Sites
US CDL - National Clandestine Laboratory Register
PFAS - PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CA FID UST - Facility Inventory Database

Local Land Records

LIENS - Environmental Liens Listing
LIENS 2 - CERCLA Lien Information
DEED - Deed Restriction Listing

Records of Emergency Release Reports

HMIRS - Hazardous Materials Information Reporting System
CHMIRS - California Hazardous Material Incident Report System
LDS - Land Disposal Sites Listing
MCS - Military Cleanup Sites Listing
SPILLS 90 - SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS - Formerly Used Defense Sites
SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR - Financial Assurance Information
EPA WATCH LIST - EPA WATCH LIST
2020 COR ACTION - 2020 Corrective Action Program List
TSCA - Toxic Substances Control Act
TRIS - Toxic Chemical Release Inventory System
SSTS - Section 7 Tracking Systems
RMP - Risk Management Plans
RAATS - RCRA Administrative Action Tracking System
PRP - Potentially Responsible Parties
PADS - PCB Activity Database System
ICIS - Integrated Compliance Information System
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS - Material Licensing Tracking System
COAL ASH DOE - Steam-Electric Plant Operation Data
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
CONSENT - Superfund (CERCLA) Consent Decrees

INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
ABANDONED MINES - Abandoned Mines
FINDS - Facility Index System/Facility Registry System
DOCKET HWC - Hazardous Waste Compliance Docket Listing
ECHO - Enforcement & Compliance History Information
UXO - Unexploded Ordnance Sites
FUELS PROGRAM - EPA Fuels Program Registered Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
HAZNET - Facility and Manifest Data
ICE - ICE
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
SAN DIEGO CO LOP - Local Oversight Program Listing
CIWQS - California Integrated Water Quality System
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
HWTS - Hazardous Waste Tracking System
MINES MRDS - Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Auto - EDR Exclusive Historical Auto Stations
EDR Hist Cleaner - EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 07/29/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMP PENDLETON MARIN Cerclis ID:: 902732 EPA Id: CA2170023533	***CAMP PENDLETON MARIN***	***NW 1/2 - 1 (0.833 mi.)***	***0***	***12***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMP PENDLETON MARIN EPA ID:: CA2170023533	***CAMP PENDLETON MARIN***	***NW 1/2 - 1 (0.833 mi.)***	***0***	***12***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/23/2021 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORROW HILLS ELEMENT Facility Id: 37010007 Status: No Further Action	***EL MIRLO DRIVE***	***NNE 1/4 - 1/2 (0.484 mi.)***	***24***	***775***
DEL RIO ELEMENTARY Facility Id: 37820016 Status: No Action Required	***5207 EAST PARKER STR***	***ENE 1/2 - 1 (0.516 mi.)***	***25***	***778***
NORTHEAST VALLEY HIG Facility Id: 37010023 Status: Inactive - Needs Evaluation	***255 STALLION DRIVE***	***ENE 1/2 - 1 (0.844 mi.)***	***27***	***784***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MURRAY BRIDGE MIDDLE Facility Id: 37010029 Status: No Further Action	***FRAZEE ROAD/GARDENIA***	***S 1/2 - 1 (0.597 mi.)***	***26***	***781***

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN STORE #2034 Database: LUST REG 9, Date of Government Version: 03/01/2001 Status: Remedial action (cleanup) Underway Case Number: 9UT2563	***487 VANDEGRIFT***	***ESE 1/8 - 1/4 (0.180 mi.)***	***D16***	***732***
7-ELEVEN FOOD STORE Database: LUST, Date of Government Version: 06/03/2021 Status: Completed - Case Closed	***487 VANDERGRIFT***	***ESE 1/8 - 1/4 (0.181 mi.)***	***D17***	***743***

Global Id: T0607301310

NORTH RIVER VILLAGE ***490 VANDEGRIFT BL*** ***ESE 1/8 - 1/4 (0.223 mi.)*** ***21*** ***768***
Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0619764331

SAN DIEGO CO. SAM: The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 2 SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE	***487 VANDERGRIFT BLVD***	***ESE 1/8 - 1/4 (0.209 mi.)***	***D19***	***762***
Case Number: H20649-001				
Case Number: H20649-002				
Case Number: H20649-003				
Facility Status: Remedial Action (Clean-Up)				
Facility Status: Closed Case				
NORTH RIVER VILLAGE	***490 VANDEGRIFT BL***	***ESE 1/8 - 1/4 (0.223 mi.)***	***21***	***768***
Case Number: 208993-001				
Facility Status: Closed Case				

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE	***487 VANDERGRIFT***	***ESE 1/8 - 1/4 (0.181 mi.)***	***D17***	***743***
Database: CPS-SLIC, Date of Government Version: 06/03/2021				
Facility Status: Completed - Case Closed				
Global Id: T0608164720				
Global Id: T0608179453				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MONARCH POINTE	***NONE N DOUGLAS DR***	***WNW 1/4 - 1/2 (0.344 mi.)***	***23***	***775***
Database: CPS-SLIC, Date of Government Version: 06/03/2021				
Facility Status: Completed - Case Closed				
Global Id: T0608108616				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE	487 VANDEGRIFT BLVD	ESE 1/8 - 1/4 (0.180 mi.)	D14	714
Database: UST, Date of Government Version: 06/03/2021 Facility Id: H20649 Facility Id: 37-000-120649				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 07/15/2021 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7 ELEVEN FOOD STORES	***487 VANDEGRIFT BL***	***ESE 1/8 - 1/4 (0.180 mi.)***	***D15***	***715***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE	***487 VANDERGRIFT BLVD***	***ESE 1/8 - 1/4 (0.209 mi.)***	***D19***	***762***
Status: A Tank Status: A Comp Number: 20649				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE Facility Id: 00000010235	***487 VANDERGRIFT***	***ESE 1/8 - 1/4 (0.181 mi.)***	***D17***	***743***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 07/15/2021 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7 ELEVEN FOOD STORES	***487 VANDEGRIFT BL***	***ESE 1/8 - 1/4 (0.180 mi.)***	***D15***	***715***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 15 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADRIANA READY	446 W. REDONDO DR.	S 0 - 1/8 (0.039 mi.)	2	684
MARGARITA FRIAS EPA ID:: CAC003037826	4940 SIESTA DR	SSE 0 - 1/8 (0.061 mi.)	A3	687
CURT PRICE EPA ID:: CAC003024837	4937 SIESTA DR.	SSE 0 - 1/8 (0.072 mi.)	A4	689
KARIN CAUSEY EPA ID:: CAC002976261	445 WEST REDONDO DRI	SSW 0 - 1/8 (0.080 mi.)	5	692
LANIE PARILLA EPA ID:: CAC002976033	4946 ROJA DRIVE	SE 0 - 1/8 (0.087 mi.)	A6	694
MEGAN MANSYUR EPA ID:: CAC002970773	567 GOLD DRIVE	ENE 0 - 1/8 (0.108 mi.)	7	697
GARCIA JAMES & GABRI	4929 SIESTA DR	SSE 0 - 1/8 (0.112 mi.)	B8	699
EDWARD FOY EPA ID:: CAC003052965	617 MONICA CIRCLE	N 1/8 - 1/4 (0.139 mi.)	9	702
STANLEY LASZCZYK EPA ID:: CAC003045193	4909 VERDE DR	S 1/8 - 1/4 (0.151 mi.)	10	704
TAMIKO SGUNA	4922 SIESTA DR.	SSE 1/8 - 1/4 (0.154 mi.)	B11	707
7-ELEVEN STORE 20342	487 VANDEGRIFT BLVD	ESE 1/8 - 1/4 (0.180 mi.)	D13	712

EPA ID:: CAD981406812				
SARA MORRIS EPA ID:: CAC003024533	4945 STEPHANIE PL	NE 1/8 - 1/4 (0.203 mi.)	18	759
BEYOND PROPERTY MANA EPA ID:: CAC002982700	670 ROJA DRIVE	NNE 1/8 - 1/4 (0.211 mi.)	C20	766
HENRY RUIZ	556 ARTHUR AVENUE	E 1/8 - 1/4 (0.241 mi.)	22	772

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHRIS TINOSO EPA ID:: CAC003018937	645 ADOBE CIR	NNE 1/8 - 1/4 (0.168 mi.)	C12	709

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMP PENDLETON MARIN		NW 1/2 - 1 (0.794 mi.)	0	12

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 07/29/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMP PENDLETON MARIN EPA ID:: CA2170023533	***CAMP PENDLETON MARIN***	***NW 1/2 - 1 (0.833 mi.)***	***0***	***12***

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/17/2021 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN FOOD STORE Cleanup Status: COMPLETED - CASE CLOSED	***487 VANDERGRIFT BLVD***	***ESE 1/8 - 1/4 (0.209 mi.)***	***D19***	***762***
NORTH RIVER VILLAGE Cleanup Status: COMPLETED - CASE CLOSED	***490 VANDEGRIFT BL***	***ESE 1/8 - 1/4 (0.223 mi.)***	***21***	***768***

EXECUTIVE SUMMARY

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7-ELEVEN STORE #2034 Reg Id: 9UT2563	***487 VANDEGRIFT***	***ESE 1/8 - 1/4 (0.180 mi.)***	***D16***	***732***

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 06693842.2R

0 1/4 1/2 1 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4991 Macario Dr ADDRESS: 4991 Macario Dr Oceanside CA 92057 LAT/LONG: 33.255975 / 117.304033	CLIENT: Hillmann Environmental Co. CONTACT: Gabby Cyrulik INQUIRY #: 06693842.2r DATE: October 07, 2021 8:44 am

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DETAIL MAP - 06693842.2R

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4991 Macario Dr ADDRESS: 4991 Macario Dr Oceanside CA 92057 LAT/LONG: 33.255975 / 117.304033	CLIENT: Hillmann Environmental Co. CONTACT: Gabby Cyrulik INQUIRY #: 06693842.2r DATE: October 07, 2021 8:45 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	0	0	1	3	NR	5
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	3	0	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SAN DIEGO CO. SAM	0.500		0	2	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	1	1	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250	1	0	0	NR	NR	NR	1
CDL	0.001		0	NR	NR	NR	NR	0
San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	1	NR	NR	NR	1
CERS TANKS	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		7	8	NR	NR	NR	15
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	2	0	NR	NR	2
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	1	0	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
SAN DIEGO CO LOP	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001	1	0	NR	NR	NR	NR	1
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	7	22	2	7	0	41

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **PACIFICA ELEMENTARY SCHOOL** **ENVIROSTOR** **S118756883**
Target **4991 MACARIO STREET** **SCH** **N/A**
Property **OCEANSIDE, CA 92057** **CERS**

Actual:
89 ft.

ENVIROSTOR:

Name:	PACIFICA ELEMENTARY SCHOOL
Address:	4991 MACARIO STREET
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37820031
Status:	No Action Required
Status Date:	11/05/2003
Site Code:	404407
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	4
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	76
Senate:	36
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.257
Longitude:	-117.302
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	OCEANSIDE USD-PACIFICA ELEM EXPANSION
Alias Type:	Alternate Name
Alias Name:	404407
Alias Type:	Project Code (Site Code)
Alias Name:	37820031
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	09/11/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/05/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	08/14/2003
Comments:	On August 14, 2003, DTSC issued a PEA required determination on the PHASE I.

PACIFICA ELEMENTARY SCHOOL (Continued) **S118756883**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	11/04/2003
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	PACIFICA ELEMENTARY SCHOOL
Address:	4991 MACARIO STREET
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37820031
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404407
Assembly:	76
Senate:	36
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	11/05/2003
Restricted Use:	NO
Funding:	School District
Latitude:	33.257
Longitude:	-117.302
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	OCEANSIDE USD-PACIFICA ELEM EXPANSION
Alias Type:	Alternate Name
Alias Name:	404407
Alias Type:	Project Code (Site Code)
Alias Name:	37820031
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE

PACIFICA ELEMENTARY SCHOOL (Continued) **S118756883**

Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/05/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/14/2003
Comments: On August 14, 2003, DTSC issued a PEA required determination on the PHASE I.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Addendum
Completed Date: 11/04/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS:
Name: PACIFICA ELEMENTARY
Address: 4991 MACARIO STREET
City,State,Zip: OCEANSIDE, CA 92057
Site ID: 371462
CERS ID: 37820031
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: SHAHIR HADDAD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

DOD **CAMP PENDLETON MARINE CORPS BASE** **DOD** **CUSA144257**
Region **N/A**
NW **CAMP PENDLETON MARINE COR (County), CA**
1/2-1
4191 ft.

DOD:

Feature 1:	Marine Corps DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Camp Pendleton Marine Corps Base
Name 2:	Not reported
Name 3:	Not reported
State:	CA
DOD Site:	Yes
Tile name:	CASAN_DIEGO

NPL **CAMP PENDLETON MARINE CORPS BASE** **NPL** **1000344642**
Region **CAMP PENDLETON MARINE BASE** **SEMS** **CA2170023533**
NW **CAMP PENDLETON, CA 92055** **CORRACTS**
1/2-1 **RCRA-TSDF**
4398 ft. **RCRA-LQG**
LUCIS
US ENG CONTROLS
US INST CONTROLS
ROD
RAATS
PRP

NPL:

EPA Region:	9
EPA ID:	CA2170023533
Site ID:	902732
Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
City,State,Zip:	CAMP PENDLETON, CA 92055
Federal:	Y
Final Date:	1989-11-21 00:00:00
Latitude:	33.306669
Longitude:	-117.3408
Site Score:	33.789999999999999

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A046
CAS Number:	1336-36-3
Substance:	POLYCHLORINATED BIPHENYLS
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	C321

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

CAS Number: 25323-89-1
Substance: TRICHLOROETHANE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U233
CAS Number: 93-72-1
Substance: TP ACID (SILVEX), 2,4,5-
Pathway: NO PATHWAY INDICATED
Scoring: 1

Summary Details:

Conditions at proposal July 14, 1989): The Camp Pendleton Marine Corps Base encompasses approximately 125,000 acres in San Diego County, California. The installation is bordered by the City of San Clemente to the north, the City of Oceanside to the south, and the City of Fallbrook to the east. The base has served as a training base since its establishment in 1941. Industrial and other support operations have generated ha ardous wastes, including waste oils, contaminated fuels and other petroleum products, cleaning solvents, and pesticide rinsate. Camp Pendleton is participating in the Installation Restoration Program IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. As part of IRP studies, the Navy identified a number of potentially contaminated areas, including eight areas where wastes containing DDT, heptachlor, 2,4-T, lindane, inc, lead,trichloroethylene, methyl ethyl ketone, ben ene, and xylene had been deposited. Ground water is shallow, averaging 7-14 feet deep, and soils are permeable, conditions that facilitate movement of contaminants into ground water. The 40,000people living and working on the base obtain drinking water from wells within 3 miles of ha ardous substances on the base. The nearest well is within 1,320 feet of one of the disposal areas. To date, no contaminants have been detected in the camp s water supply. San Margarita River, Las Flores Creek, and San Mateo Creek empty into coastal wetlands within 2 miles of Camp Pendleton. Surface waters within 3 miles downstream are used for recreational activities. Critical habitatsfor three birds designated as endangered by the U.S. Fish and Wildlife Service are within 1 mile of the camp. The Marine Corps has completed a site inspection and is about to start planning for a remedial investigation/feasibility studyRI/FS)to determine the type and extent of contamination at the base and identify alternatives for remedial action. Status November 21, 1989): The RI/FS is underway.

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 5

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: CAMP PENDLETON MARINE CORPS BASE

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NPL:
EPA Region: 09
Site ID: 0902732
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 11/21/89
Date Proposed: 07/14/89

NPL:
Proposed Date: 07/14/1989
Final Date: 11/21/1989
Deleted Date: Not reported
NPL Status: Final

SEMS:
Site ID: 0902732
EPA ID: CA2170023533
Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
Address 2: Not reported
City,State,Zip: CAMP PENDLETON, CA 92055
Cong District: 48,49
FIPS Code: 06073
Latitude: 33.306669
Longitude: -117.340800
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0902732
EPA ID: CA2170023533
Site Name: CAMP PENDLETON MARINE CORPS BASE
NPL: F
FF: Y
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-10-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902732
EPA ID: CA2170023533
Site Name: CAMP PENDLETON MARINE CORPS BASE
NPL: F
FF: Y
OU: 00
Action Code: HR
Action Name: HAZRANK

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

SEQ:	1
Start Date:	1987-06-01 04:00:00
Finish Date:	6/1/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1989-11-21 05:00:00
Finish Date:	11/21/1989 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1989-07-14 04:00:00
Finish Date:	7/14/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2001-09-06 04:00:00
Finish Date:	2/27/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

OU:	03
Action Code:	LY
Action Name:	FF RA
SEQ:	3
Start Date:	1999-06-23 04:00:00
Finish Date:	8/29/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	1994-08-15 04:00:00
Finish Date:	12/22/1995 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1996-08-01 04:00:00
Finish Date:	9/4/1997 4:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1999-02-11 05:00:00
Finish Date:	2/11/1999 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1990-09-28 04:00:00
Finish Date:	12/7/1995 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	LX
Action Name:	FF RD
SEQ:	3
Start Date:	1999-01-17 05:00:00
Finish Date:	6/17/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	5
Start Date:	2003-02-03 05:00:00
Finish Date:	2/21/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	5
Start Date:	2008-02-21 05:00:00
Finish Date:	2/21/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LX
Action Name:	FF RD
SEQ:	5
Start Date:	2008-02-21 05:00:00
Finish Date:	2/21/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LY
Action Name:	FF RA
SEQ:	5
Start Date:	2008-02-21 05:00:00
Finish Date:	9/29/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LV
Action Name:	FF RV
SEQ:	5
Start Date:	2001-09-06 04:00:00
Finish Date:	10/29/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	1997-09-30 04:00:00
Finish Date:	9/30/1997 4:00:00 AM

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LY
Action Name:	FF RA
SEQ:	7
Start Date:	2007-10-29 04:00:00
Finish Date:	8/29/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LY
Action Name:	FF RA
SEQ:	8
Start Date:	2008-02-21 05:00:00
Finish Date:	9/2/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	2006-04-06 04:00:00
Finish Date:	9/28/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	LY
Action Name:	FF RA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

SEQ:	9
Start Date:	1999-08-01 04:00:00
Finish Date:	9/7/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD
SEQ:	6
Start Date:	2015-03-20 04:00:00
Finish Date:	3/20/2015 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	RO
Action Name:	ROD
SEQ:	4
Start Date:	2007-06-15 04:00:00
Finish Date:	6/15/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LY
Action Name:	FF RA
SEQ:	4
Start Date:	2007-10-29 04:00:00
Finish Date:	9/7/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-05-01 05:00:00
Finish Date:	5/1/1984 5:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1987-06-01 04:00:00
Finish Date:	6/1/1987 4:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	7
Start Date:	2009-10-01 04:00:00
Finish Date:	2/17/2011 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	7
Start Date:	2014-02-28 05:00:00
Finish Date:	2/28/2014 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	2014-09-15 05:00:00
Finish Date:	9/15/2014 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	11
Start Date:	2013-04-19 04:00:00
Finish Date:	4/19/2013 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-01-01 05:00:00
Finish Date:	1/1/1980 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	07
Action Code:	NI
Action Name:	FF FS
SEQ:	2
Start Date:	2013-12-16 05:00:00
Finish Date:	12/16/2013 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	07
Action Code:	RO
Action Name:	ROD
SEQ:	19
Start Date:	2013-12-16 05:00:00
Finish Date:	12/16/2013 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1990-09-28 04:00:00
Finish Date:	2/11/1999 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1995-12-07 05:00:00
Finish Date:	12/7/1995 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	1996-04-22 04:00:00
Finish Date:	9/12/1997 4:00:00 AM

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Qual:	P
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	2
Start Date:	1990-09-28 04:00:00
Finish Date:	9/30/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LX
Action Name:	FF RD
SEQ:	4
Start Date:	2007-06-15 04:00:00
Finish Date:	10/29/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD
SEQ:	21
Start Date:	2020-05-15 04:00:00
Finish Date:	5/15/2020 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LX
Action Name:	FF RD

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

SEQ:	6
Start Date:	2014-05-06 05:00:00
Finish Date:	9/1/2020 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD
SEQ:	12
Start Date:	2020-08-07 05:00:00
Finish Date:	8/7/2020 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	6
Start Date:	2001-09-06 04:00:00
Finish Date:	2/27/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LY
Action Name:	FF RA
SEQ:	10
Start Date:	2014-02-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902732
EPA ID:	CA2170023533
Site Name:	CAMP PENDLETON MARINE CORPS BASE
NPL:	F
FF:	Y

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

OU: 06
Action Code: LW
Action Name: FF RI/FS
SEQ: 8
Start Date: 2013-10-30 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902732
EPA ID: CA2170023533
Site Name: CAMP PENDLETON MARINE CORPS BASE
NPL: F
FF: Y
OU: 06
Action Code: RO
Action Name: ROD
SEQ: 15
Start Date: 2020-06-26 05:00:00
Finish Date: 6/26/2020 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902732
EPA ID: CA2170023533
Site Name: CAMP PENDLETON MARINE CORPS BASE
NPL: F
FF: Y
OU: 06
Action Code: RO
Action Name: ROD
SEQ: 20
Start Date: 2018-02-16 05:00:00
Finish Date: 2/16/2018 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902732
EPA ID: CA2170023533
Site Name: CAMP PENDLETON MARINE CORPS BASE
NPL: F
FF: Y
OU: 06
Action Code: RO
Action Name: ROD
SEQ: 22
Start Date: 2018-02-16 05:00:00
Finish Date: 2/16/2018 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

CORRACTS:
Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: OU 1 (GROUP A)
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: OU 1 (GROUP A)
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: MCB CAMP PENDLETON, ENVIRONMENTAL SECURITY
Address: 22165 CAMP PENDLETON
Address 2: Not reported
EPA ID: CA2170023533
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA-LQG:
Date Form Received by Agency: 2020-02-26 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Handler Address: 22165 CAMP PENDLETON
Handler City,State,Zip: CAMP PENDLETON, CA 92055-5008
EPA ID: CA2170023533
Contact Name: BRYAN R OSBORN
Contact Address: CAMP PENDLETON
Contact City,State,Zip: CAMP PENDLETON, CA 92055-5008
Contact Telephone: 760-725-4375
Contact Fax: 760-725-0207
Contact Email: BRYAN.OSBORN@USMC.MIL
Contact Title: HW SECTION HEAD
EPA Region: 09
Land Type: Federal
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities, Corrective Action Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: P.O. BOX 555008
Mailing City,State,Zip: CAMP PENDLETON, CA 92055-5008
Owner Name: GOVERNMENT
Owner Type: Federal
Operator Name: GOVERNMENT
Operator Type: Federal

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Subpart K - Withdrawal
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-12-30 18:15:54.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Waste Code: D009
Waste Description: MERCURY

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: P081
Waste Description: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste Code: U160
Waste Description: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

Waste Code: U188
Waste Description: PHENOL

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	P.O BOX 555008
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	JENNIFER.A.SULLIVAN@USMC.MIL

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	BLDG 22165
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	BLDG 22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	P.O BOX 555008
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	JENNIFER.A.SULLIVAN@USMC.MIL
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NATURAL RESOURCES
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	OFFICE BLDG 2276
Owner/Operator City,State,Zip:	MCB CAMP PENDLETON, CA 99999
Owner/Operator Telephone:	619-725-4512
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	PNDL_ENV-HAZARDOUS-WASTE@USMC.MIL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	PNDL_ENV-HAZARDOUS-WASTE@USMC.MIL

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NATURAL RESOURCES
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	OFFICE BLDG 2276
Owner/Operator City,State,Zip:	MCB CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	714-725-4820
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	"SAME AS ITEM 4"
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	"SAME AS ITEM 4"
Owner/Operator City,State,Zip:	CA
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GOVERNMENT
Legal Status: Federal
Date Became Current: 1985-06-27 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: "SAME AS ITEM 4"
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2010-03-01 00:00:00.0
Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2012-03-05 00:00:00.0
Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-03-01 00:00:00.0
Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-02-29 00:00:00.0
Handler Name: MCB CAMP PENDLETON

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-02-28 00:00:00.0
Handler Name: US MARINE CORPS-CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-26 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1996-09-01 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1980-08-18 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-06-20 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-22 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1992-02-29 00:00:00.0
Handler Name: MARINE CORPS BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1996-02-29 00:00:00.0
Handler Name: USMC, CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Receive Date:	1999-03-04 00:00:00.0
Handler Name:	MARINE CORPS BASE CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2000-10-12 00:00:00.0
Handler Name:	USMC CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2002-02-27 00:00:00.0
Handler Name:	USMC CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2004-02-11 00:00:00.0
Handler Name:	USMC CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2006-02-27 00:00:00.0
Handler Name:	USMC CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2008-02-25 00:00:00.0
Handler Name:	USMC CAMP PENDLETON
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	2212
NAICS Description:	NATURAL GAS DISTRIBUTION
NAICS Code:	23411
NAICS Description:	HIGHWAY AND STREET CONSTRUCTION
NAICS Code:	23521
NAICS Description:	PAINTING AND WALL COVERING CONTRACTORS
NAICS Code:	23552
NAICS Description:	FLOOR LAYING AND OTHER FLOOR CONTRACTORS
NAICS Code:	23594
NAICS Description:	WRECKING AND DEMOLITION CONTRACTORS
NAICS Code:	322233
NAICS Description:	STATIONERY, TABLET, AND RELATED PRODUCT MANUFACTURING
NAICS Code:	324191
NAICS Description:	PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING
NAICS Code:	324199
NAICS Description:	ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING
NAICS Code:	32511
NAICS Description:	PETROCHEMICAL MANUFACTURING
NAICS Code:	32512
NAICS Description:	INDUSTRIAL GAS MANUFACTURING
NAICS Code:	325181
NAICS Description:	ALKALIES AND CHLORINE MANUFACTURING
NAICS Code:	325211
NAICS Description:	PLASTICS MATERIAL AND RESIN MANUFACTURING

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NAICS Code: 32532
NAICS Description: PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

NAICS Code: 32551
NAICS Description: PAINT AND COATING MANUFACTURING

NAICS Code: 32552
NAICS Description: ADHESIVE MANUFACTURING

NAICS Code: 325611
NAICS Description: SOAP AND OTHER DETERGENT MANUFACTURING

NAICS Code: 325992
NAICS Description: PHOTOGRAPHIC FILM, PAPER, PLATE, AND CHEMICAL MANUFACTURING

NAICS Code: 325998
NAICS Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

NAICS Code: 332431
NAICS Description: METAL CAN MANUFACTURING

NAICS Code: 335311
NAICS Description: POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMER MANUFACTURING

NAICS Code: 335912
NAICS Description: PRIMARY BATTERY MANUFACTURING

NAICS Code: 336399
NAICS Description: ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

NAICS Code: 339113
NAICS Description: SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

NAICS Code: 33991
NAICS Description: JEWELRY AND SILVERWARE MANUFACTURING

NAICS Code: 42141
NAICS Description: PHOTOGRAPHIC EQUIPMENT AND SUPPLIES WHOLESALERS

NAICS Code: 42193
NAICS Description: RECYCLABLE MATERIAL WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 56171
NAICS Description: EXTERMINATING AND PEST CONTROL SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 561990
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 621511
NAICS Description: MEDICAL LABORATORIES

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NAICS Code: 811118
NAICS Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE

NAICS Code: 811198
NAICS Description: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE

NAICS Code: 811412
NAICS Description: APPLIANCE REPAIR AND MAINTENANCE

NAICS Code: 812331
NAICS Description: LINEN SUPPLY

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-05-06 00:00:00.0
Actual Return to Compliance Date:	1992-05-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-08 00:00:00.0
Actual Return to Compliance Date: 1993-04-21 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-01-15 00:00:00.0
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2008-01-15 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-09-22 00:00:00.0
Actual Return to Compliance Date:	1993-10-06 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1991-09-19 00:00:00.0
Actual Return to Compliance Date: 1991-10-01 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-12-12 00:00:00.0
Actual Return to Compliance Date:	1991-07-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-07-10 00:00:00.0
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-10 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-10-21 00:00:00.0
Actual Return to Compliance Date:	1993-01-06 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1994-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-05-18 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1994-04-22 00:00:00.0
Enforcement Identifier:	002
Date of Enforcement Action:	1994-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-09-30 00:00:00.0
Actual Return to Compliance Date: 2008-10-07 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-04 00:00:00.0
Actual Return to Compliance Date:	1993-03-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-31 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-03-25 00:00:00.0
Actual Return to Compliance Date:	1994-03-30 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-01-06 00:00:00.0
Actual Return to Compliance Date:	1993-01-13 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	1990-07-17 00:00:00.0
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	1991-05-22 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-08 00:00:00.0
Actual Return to Compliance Date:	1993-03-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-05-26 00:00:00.0
Actual Return to Compliance Date:	1993-06-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-01 00:00:00.0
Actual Return to Compliance Date: 1994-04-05 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 1991-12-10 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-10-08 00:00:00.0
Actual Return to Compliance Date:	1991-12-17 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1995-12-21 00:00:00.0
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1995-12-21 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-20 00:00:00.0
Actual Return to Compliance Date: 1992-05-27 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1988-09-26 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-03-03 00:00:00.0
Actual Return to Compliance Date:	1992-03-17 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 1991-12-10 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000
Paid Amount: 64000
Final Count: 1
Final Amount: 64000

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-08-10 00:00:00.0
Actual Return to Compliance Date: 1992-08-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-07-01 00:00:00.0
Actual Return to Compliance Date:	1992-07-15 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-07 00:00:00.0
Actual Return to Compliance Date:	1993-04-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-01-15 00:00:00.0
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	602
Date of Enforcement Action:	2008-01-15 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-02 00:00:00.0
Actual Return to Compliance Date:	1994-02-09 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-05 00:00:00.0
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-01-15 00:00:00.0
Actual Return to Compliance Date: 2008-04-14 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2008-01-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-07-10 00:00:00.0
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-10 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-03 00:00:00.0
Actual Return to Compliance Date:	1993-03-04 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-11-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	1991-12-10 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2010-03-09 00:00:00.0
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Enforcement Identifier:	601
Date of Enforcement Action:	2010-03-09 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-07-31 00:00:00.0
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	602
Date of Enforcement Action:	2007-07-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-19 00:00:00.0
Actual Return to Compliance Date:	1993-02-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-06-11 00:00:00.0
Actual Return to Compliance Date: 1992-06-18 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-17 00:00:00.0
Actual Return to Compliance Date:	1993-04-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1988-09-26 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-04-15 00:00:00.0
Actual Return to Compliance Date: 1992-05-06 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 2007-01-22 00:00:00.0
Actual Return to Compliance Date: 2007-02-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 2007-02-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-05-18 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1994-05-22 00:00:00.0
Enforcement Identifier: 002
Date of Enforcement Action: 1994-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-03 00:00:00.0
Actual Return to Compliance Date: 1994-03-16 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-05 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 602
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-08-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-26 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-05 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 602
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-04-08 00:00:00.0
Actual Return to Compliance Date: 1992-04-15 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-07-15 00:00:00.0
Actual Return to Compliance Date:	1992-07-29 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-10-08 00:00:00.0
Actual Return to Compliance Date:	1992-10-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-05 00:00:00.0
Actual Return to Compliance Date: 2007-11-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-09-30 00:00:00.0
Actual Return to Compliance Date: 2008-10-07 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2008-09-30 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1995-12-21 00:00:00.0
Actual Return to Compliance Date: 1995-12-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1995-12-21 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-03-11 00:00:00.0
Actual Return to Compliance Date: 1993-03-17 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-01-13 00:00:00.0
Actual Return to Compliance Date:	1993-02-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2007-01-22 00:00:00.0
Actual Return to Compliance Date: 2007-02-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-01-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2009-01-13 00:00:00.0
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-03-30 00:00:00.0
Actual Return to Compliance Date:	1994-03-31 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0
Actual Return to Compliance Date: 2007-09-06 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-10 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-04-01 00:00:00.0
Actual Return to Compliance Date:	1992-04-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-05-13 00:00:00.0
Actual Return to Compliance Date:	1992-05-20 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-22 00:00:00.0
Actual Return to Compliance Date: 1993-04-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-10-20 00:00:00.0
Actual Return to Compliance Date: 1993-12-02 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-11-04 00:00:00.0
Actual Return to Compliance Date: 2008-11-24 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1990-11-06 00:00:00.0
Actual Return to Compliance Date: 1990-11-08 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-08-11 00:00:00.0
Actual Return to Compliance Date: 1993-09-22 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0
Actual Return to Compliance Date: 2007-09-06 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-10 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000
Paid Amount: 64000
Final Count: 1
Final Amount: 64000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-03-01 00:00:00.0
Actual Return to Compliance Date: 1993-03-03 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-10-06 00:00:00.0
Actual Return to Compliance Date:	1993-10-13 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-21 00:00:00.0
Actual Return to Compliance Date: 1993-04-22 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-05 00:00:00.0
Actual Return to Compliance Date: 1994-04-07 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 1995-03-17 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-10-13 00:00:00.0
Actual Return to Compliance Date: 1993-10-20 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2001-02-22 00:00:00.0
Actual Return to Compliance Date:	2001-03-02 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	2001-03-23 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-01-15 00:00:00.0
Actual Return to Compliance Date: 2008-04-14 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2008-01-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-02-25 00:00:00.0
Actual Return to Compliance Date:	1992-02-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1991-08-21 00:00:00.0
Actual Return to Compliance Date: 1991-09-19 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1988-09-26 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-31 00:00:00.0
Actual Return to Compliance Date: 2007-09-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-31 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-07-14 00:00:00.0
Actual Return to Compliance Date:	1993-07-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-26 00:00:00.0
Actual Return to Compliance Date:	1994-01-27 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-01 00:00:00.0
Actual Return to Compliance Date:	1993-02-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1991-11-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-10-01 00:00:00.0
Actual Return to Compliance Date:	1991-10-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1988-01-12 00:00:00.0
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	1987-05-17 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-02-17 00:00:00.0
Actual Return to Compliance Date: 1993-02-19 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-09-30 00:00:00.0
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-12-02 00:00:00.0
Actual Return to Compliance Date: 1994-01-19 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-12-17 00:00:00.0
Actual Return to Compliance Date:	1992-02-18 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2010-03-09 00:00:00.0
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Enforcement Identifier:	601
Date of Enforcement Action:	2010-03-09 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-25 00:00:00.0
Actual Return to Compliance Date: 1992-04-01 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-06-10 00:00:00.0
Actual Return to Compliance Date: 1992-06-11 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-06-24 00:00:00.0
Actual Return to Compliance Date:	1992-07-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1988-04-06 00:00:00.0
Actual Return to Compliance Date:	1988-04-06 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	1998-03-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-24 00:00:00.0
Actual Return to Compliance Date:	1994-01-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-19 00:00:00.0
Actual Return to Compliance Date:	1994-01-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2001-02-22 00:00:00.0
Actual Return to Compliance Date: 2001-03-02 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2001-03-23 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	2006-02-22 00:00:00.0
Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2006-02-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1991-11-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-07 00:00:00.0
Actual Return to Compliance Date: 1994-04-13 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-27 00:00:00.0
Actual Return to Compliance Date:	1994-02-02 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 1987-05-17 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-02-23 00:00:00.0
Actual Return to Compliance Date: 1994-03-03 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-06-03 00:00:00.0
Actual Return to Compliance Date:	1992-06-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1990-07-17 00:00:00.0
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	1991-05-22 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-09-02 00:00:00.0
Actual Return to Compliance Date:	1992-09-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-03-18 00:00:00.0
Actual Return to Compliance Date:	1992-03-25 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-07 00:00:00.0
Actual Return to Compliance Date: 1992-05-13 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-10-27 00:00:00.0
Actual Return to Compliance Date:	1990-11-06 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-06-18 00:00:00.0
Actual Return to Compliance Date: 1992-06-24 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-05-19 00:00:00.0
Actual Return to Compliance Date:	1993-05-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-09 00:00:00.0
Actual Return to Compliance Date:	1994-02-16 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-27 00:00:00.0
Actual Return to Compliance Date: 1992-06-03 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-06-10 00:00:00.0
Actual Return to Compliance Date:	1993-07-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-16 00:00:00.0
Actual Return to Compliance Date: 1994-03-25 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-07-21 00:00:00.0
Actual Return to Compliance Date: 1993-08-11 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-02-10 00:00:00.0
Actual Return to Compliance Date: 1993-02-17 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-14 00:00:00.0
Actual Return to Compliance Date: 1994-04-20 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-28 00:00:00.0
Actual Return to Compliance Date: 1993-05-05 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-10-06 00:00:00.0
Actual Return to Compliance Date:	1992-10-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1998-11-25 00:00:00.0
Actual Return to Compliance Date:	1998-12-10 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1998-12-25 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1998-11-25 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-28 00:00:00.0
Actual Return to Compliance Date:	1995-03-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-05-05 00:00:00.0
Actual Return to Compliance Date: 1993-05-19 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-08-05 00:00:00.0
Actual Return to Compliance Date: 1992-08-10 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-07-07 00:00:00.0
Actual Return to Compliance Date:	1993-07-14 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 2007-01-22 00:00:00.0
Actual Return to Compliance Date: 2007-02-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-01-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-10 00:00:00.0
Actual Return to Compliance Date:	1993-03-11 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 2006-02-22 00:00:00.0
Actual Return to Compliance Date: 2006-03-23 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 506
Date of Enforcement Action: 2006-03-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-05 00:00:00.0
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	64000
Final Count:	1
Final Amount:	64000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-24 00:00:00.0
Actual Return to Compliance Date:	1993-03-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-13 00:00:00.0
Actual Return to Compliance Date:	1994-04-14 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-17 00:00:00.0
Actual Return to Compliance Date: 1992-03-18 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-08-26 00:00:00.0
Actual Return to Compliance Date:	1992-09-02 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-02 00:00:00.0
Actual Return to Compliance Date: 1992-03-03 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2007-01-22 00:00:00.0
Actual Return to Compliance Date: 2007-02-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 2007-02-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-16 00:00:00.0
Actual Return to Compliance Date:	1994-02-23 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-03-31 00:00:00.0
Actual Return to Compliance Date:	1994-04-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-11-08 00:00:00.0
Actual Return to Compliance Date:	1990-12-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-02-18 00:00:00.0
Actual Return to Compliance Date:	1992-02-25 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2010-03-09 00:00:00.0
Actual Return to Compliance Date: 2010-03-09 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 2010-03-09 00:00:00.0
Enforcement Identifier: 601
Date of Enforcement Action: 2010-03-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	1992-05-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-09-22 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-10-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-09-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-10-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-12-12 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-07-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-10-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-01-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-03-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-05-18 00:00:00.0
Scheduled Compliance Date:	1994-04-22 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-04 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-11-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-01-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-01-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-05-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-06-10 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1994-04-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-10-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-12-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1995-12-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1996-10-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-05-20 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-08-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-07-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-02-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-02-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-09 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-11-04 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-04 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-06-11 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-04-15 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-05-18 00:00:00.0
Scheduled Compliance Date:	1994-05-22 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2002-11-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-08-12 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-04-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-07-15 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-10-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-10-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1995-12-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-11 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-08-14 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-01-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-30 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-31 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-04-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-05-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-04-22 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-10-20 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-12-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1995-03-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2008-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-11-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-07-29 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-11-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-11-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-08-11 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-09-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-10-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-10-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-07 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1993-10-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-10-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2001-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2001-03-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-02-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-08-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-09-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-11-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-14 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-02-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-08-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-10-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-10-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-02-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-11-12 00:00:00.0
Evaluation Responsible Agency:	EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-12-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-12-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-06-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-06-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1998-03-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-04-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2017-01-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2001-02-22 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2001-03-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1994-04-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-01-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-02-23 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-08-14 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-06-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-09-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-01-12 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-05-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-10-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-11-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-06-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-05-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1994-02-09 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-05-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-06-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-16 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-08-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-14 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-28 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-10-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-10-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1998-11-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1998-12-10 00:00:00.0
Scheduled Compliance Date:	1998-12-25 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1994-04-28 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-05-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-05-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-09-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-02-16 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-23 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-31 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2002-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-11-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-12-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-02-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-08-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

RCRA-LQG:

Date Form Received by Agency:	2020-02-26 00:00:00.0
Handler Name:	MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Handler Address:	22165 CAMP PENDLETON
Handler City,State,Zip:	CAMP PENDLETON, CA 92055-5008
EPA ID:	CA2170023533
Contact Name:	BRYAN R OSBORN
Contact Address:	CAMP PENDLETON
Contact City,State,Zip:	CAMP PENDLETON, CA 92055-5008
Contact Telephone:	760-725-4375
Contact Fax:	760-725-0207
Contact Email:	BRYAN.OSBORN@USMC.MIL
Contact Title:	HW SECTION HEAD
EPA Region:	09
Land Type:	Federal
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	P.O. BOX 555008
Mailing City,State,Zip:	CAMP PENDLETON, CA 92055-5008
Owner Name:	GOVERNMENT
Owner Type:	Federal
Operator Name:	GOVERNMENT
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Subpart K - Withdrawal
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage
Post-Closure Workload Universe:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-12-30 18:15:54.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D026
Waste Description:	CRESOL
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D037
Waste Description:	PENTACHLOROPHENOL
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: P081
Waste Description: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste Code: U160
Waste Description: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

Waste Code: U188
Waste Description: PHENOL

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: GOVERNMENT
Legal Status: Federal
Date Became Current: 1985-06-27 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: P.O BOX 555008
Owner/Operator City,State,Zip: CAMP PENDLETON, CA 92055
Owner/Operator Telephone: 760-725-9752
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: JENNIFER.A.SULLIVAN@USMC.MIL

Owner/Operator Indicator: Operator
Owner/Operator Name: MCB CAMP PENDLETON
Legal Status: Federal
Date Became Current: 1985-06-27 00:00:00.
Date Ended Current: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	BLDG 22165
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	BLDG 22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	P.O BOX 555008
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	JENNIFER.A.SULLIVAN@USMC.MIL

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NATURAL RESOURCES
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	OFFICE BLDG 2276
Owner/Operator City,State,Zip:	MCB CAMP PENDLETON, CA 99999
Owner/Operator Telephone:	619-725-4512
Owner/Operator Telephone Ext:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-9752
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	PNDL_ENV-HAZARDOUS-WASTE@USMC.MIL
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	760-725-4375
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	PNDL_ENV-HAZARDOUS-WASTE@USMC.MIL
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NATURAL RESOURCES
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	OFFICE BLDG 2276
Owner/Operator City,State,Zip:	MCB CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	714-725-4820
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	"SAME AS ITEM 4"

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	"SAME AS ITEM 4"
Owner/Operator City,State,Zip:	CA
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCB CAMP PENDLETON
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	22165 CAMP PENDLETON
Owner/Operator City,State,Zip:	CAMP PENDLETON, CA 92055
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOVERNMENT
Legal Status:	Federal
Date Became Current:	1985-06-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	"SAME AS ITEM 4"
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2010-03-01 00:00:00.0
Handler Name: MCB CAMP PENDLETON	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	2012-03-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-03-01 00:00:00.0
Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-02-29 00:00:00.0
Handler Name: MCB CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-02-28 00:00:00.0
Handler Name: US MARINE CORPS-CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-26 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1996-09-01 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1980-08-18 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-06-20 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-22 00:00:00.0
Handler Name: MCB CAMP PENDLETON; ENVIRONMENTAL SECURITY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Electronic Manifest Broker: No

Receive Date: 1992-02-29 00:00:00.0
Handler Name: MARINE CORPS BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1996-02-29 00:00:00.0
Handler Name: USMC, CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1999-03-04 00:00:00.0
Handler Name: MARINE CORPS BASE CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2000-10-12 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-02-27 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-02-11 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2006-02-27 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2008-02-25 00:00:00.0
Handler Name: USMC CAMP PENDLETON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 2212
NAICS Description: NATURAL GAS DISTRIBUTION

NAICS Code: 23411
NAICS Description: HIGHWAY AND STREET CONSTRUCTION

NAICS Code: 23521

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NAICS Description: PAINTING AND WALL COVERING CONTRACTORS

NAICS Code: 23552
NAICS Description: FLOOR LAYING AND OTHER FLOOR CONTRACTORS

NAICS Code: 23594
NAICS Description: WRECKING AND DEMOLITION CONTRACTORS

NAICS Code: 322233
NAICS Description: STATIONERY, TABLET, AND RELATED PRODUCT MANUFACTURING

NAICS Code: 324191
NAICS Description: PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING

NAICS Code: 324199
NAICS Description: ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

NAICS Code: 32511
NAICS Description: PETROCHEMICAL MANUFACTURING

NAICS Code: 32512
NAICS Description: INDUSTRIAL GAS MANUFACTURING

NAICS Code: 325181
NAICS Description: ALKALIES AND CHLORINE MANUFACTURING

NAICS Code: 325211
NAICS Description: PLASTICS MATERIAL AND RESIN MANUFACTURING

NAICS Code: 32532
NAICS Description: PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

NAICS Code: 32551
NAICS Description: PAINT AND COATING MANUFACTURING

NAICS Code: 32552
NAICS Description: ADHESIVE MANUFACTURING

NAICS Code: 325611
NAICS Description: SOAP AND OTHER DETERGENT MANUFACTURING

NAICS Code: 325992
NAICS Description: PHOTOGRAPHIC FILM, PAPER, PLATE, AND CHEMICAL MANUFACTURING

NAICS Code: 325998
NAICS Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

NAICS Code: 332431
NAICS Description: METAL CAN MANUFACTURING

NAICS Code: 335311
NAICS Description: POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMER MANUFACTURING

NAICS Code: 335912
NAICS Description: PRIMARY BATTERY MANUFACTURING

NAICS Code: 336399

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NAICS Description: ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

NAICS Code: 339113
NAICS Description: SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

NAICS Code: 33991
NAICS Description: JEWELRY AND SILVERWARE MANUFACTURING

NAICS Code: 42141
NAICS Description: PHOTOGRAPHIC EQUIPMENT AND SUPPLIES WHOLESALERS

NAICS Code: 42193
NAICS Description: RECYCLABLE MATERIAL WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 56171
NAICS Description: EXTERMINATING AND PEST CONTROL SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 561990
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 621511
NAICS Description: MEDICAL LABORATORIES

NAICS Code: 811118
NAICS Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE

NAICS Code: 811198
NAICS Description: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE

NAICS Code: 811412
NAICS Description: APPLIANCE REPAIR AND MAINTENANCE

NAICS Code: 812331
NAICS Description: LINEN SUPPLY

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-06 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-05-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-08 00:00:00.0
Actual Return to Compliance Date:	1993-04-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-01-15 00:00:00.0
Actual Return to Compliance Date: 2008-04-14 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2008-01-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-09-22 00:00:00.0
Actual Return to Compliance Date:	1993-10-06 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1991-09-19 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1991-10-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-12-12 00:00:00.0
Actual Return to Compliance Date:	1991-07-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0
Actual Return to Compliance Date: 2007-09-06 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-10 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-10-21 00:00:00.0
Actual Return to Compliance Date: 1993-01-06 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1994-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-05-18 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1994-04-22 00:00:00.0
Enforcement Identifier: 002
Date of Enforcement Action: 1994-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-09-30 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 2008-10-07 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-03-04 00:00:00.0
Actual Return to Compliance Date: 1993-03-08 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-31 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-25 00:00:00.0
Actual Return to Compliance Date: 1994-03-30 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-01-06 00:00:00.0
Actual Return to Compliance Date: 1993-01-13 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-08 00:00:00.0
Actual Return to Compliance Date:	1993-03-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-05-26 00:00:00.0
Actual Return to Compliance Date:	1993-06-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-01 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-04-05 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-11-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	1991-12-10 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1991-10-08 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1991-12-17 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1995-12-21 00:00:00.0
Actual Return to Compliance Date: 1995-12-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1995-12-21 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-20 00:00:00.0
Actual Return to Compliance Date: 1992-05-27 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-03 00:00:00.0
Actual Return to Compliance Date: 1992-03-17 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 1991-11-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	1991-12-10 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 64000
Paid Amount: 64000
Final Count: 1
Final Amount: 64000

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-08-10 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-08-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-07-01 00:00:00.0
Actual Return to Compliance Date:	1992-07-15 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-07 00:00:00.0
Actual Return to Compliance Date:	1993-04-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-01-15 00:00:00.0
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	602
Date of Enforcement Action:	2008-01-15 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-02 00:00:00.0
Actual Return to Compliance Date:	1994-02-09 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-05 00:00:00.0
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2008-01-15 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2008-01-15 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0
Actual Return to Compliance Date: 2007-09-06 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-07-10 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	1989-06-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-03 00:00:00.0
Actual Return to Compliance Date:	1993-03-04 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-11-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	1991-12-10 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2010-03-09 00:00:00.0
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Enforcement Identifier:	601
Date of Enforcement Action:	2010-03-09 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-07-31 00:00:00.0
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	602
Date of Enforcement Action:	2007-07-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-02-19 00:00:00.0
Actual Return to Compliance Date: 1993-02-24 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-06-11 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-06-18 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-17 00:00:00.0
Actual Return to Compliance Date:	1993-04-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1987-03-12 00:00:00.0
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-04-15 00:00:00.0
Actual Return to Compliance Date: 1992-05-06 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 2007-01-22 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 2007-02-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 2007-02-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-05-18 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1994-05-22 00:00:00.0
Enforcement Identifier: 002
Date of Enforcement Action: 1994-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-03-03 00:00:00.0
Actual Return to Compliance Date:	1994-03-16 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-05 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 602
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-08-12 00:00:00.0
Actual Return to Compliance Date:	1992-08-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	602
Date of Enforcement Action:	2007-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-04-08 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-04-15 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-07-15 00:00:00.0
Actual Return to Compliance Date: 1992-07-29 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1988-09-26 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-10-08 00:00:00.0
Actual Return to Compliance Date:	1992-10-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-09-30 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2008-09-30 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	1995-12-21 00:00:00.0
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1995-12-21 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-03-11 00:00:00.0
Actual Return to Compliance Date: 1993-03-17 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1988-01-12 00:00:00.0
Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-01-13 00:00:00.0
Actual Return to Compliance Date:	1993-02-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2007-01-22 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2007-01-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2009-01-13 00:00:00.0
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-30 00:00:00.0
Actual Return to Compliance Date: 1994-03-31 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-10 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-04-01 00:00:00.0
Actual Return to Compliance Date:	1992-04-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-13 00:00:00.0
Actual Return to Compliance Date: 1992-05-20 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-22 00:00:00.0
Actual Return to Compliance Date: 1993-04-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-10-20 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-12-02 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	1987-03-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-11-04 00:00:00.0
Actual Return to Compliance Date: 2008-11-24 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Enforcement Identifier:	001
Date of Enforcement Action:	1992-11-05 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-11-06 00:00:00.0
Actual Return to Compliance Date:	1990-11-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-08-11 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-09-22 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-07-10 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-10 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-01 00:00:00.0
Actual Return to Compliance Date:	1993-03-03 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-10-06 00:00:00.0
Actual Return to Compliance Date:	1993-10-13 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-21 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-04-22 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-05 00:00:00.0
Actual Return to Compliance Date:	1994-04-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1989-06-28 00:00:00.0
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1992-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-10-13 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-10-20 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2001-02-22 00:00:00.0
Actual Return to Compliance Date: 2001-03-02 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2001-03-23 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-01-15 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2008-01-15 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-02-25 00:00:00.0
Actual Return to Compliance Date:	1992-02-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-08-21 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1991-09-19 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	1988-09-26 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-07-31 00:00:00.0
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-07-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-07-14 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-07-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-26 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-01-27 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-01 00:00:00.0
Actual Return to Compliance Date:	1993-02-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-10-01 00:00:00.0
Actual Return to Compliance Date:	1991-10-08 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1988-01-12 00:00:00.0
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	1987-05-17 00:00:00.0
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-02-19 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1988-01-12 00:00:00.0
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2008-09-30 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-12-02 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-01-19 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1991-12-17 00:00:00.0
Actual Return to Compliance Date:	1992-02-18 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2010-03-09 00:00:00.0
Actual Return to Compliance Date: 2010-03-09 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 2010-03-09 00:00:00.0
Enforcement Identifier: 601
Date of Enforcement Action: 2010-03-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-03-25 00:00:00.0
Actual Return to Compliance Date:	1992-04-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-06-10 00:00:00.0
Actual Return to Compliance Date: 1992-06-11 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-06-24 00:00:00.0
Actual Return to Compliance Date:	1992-07-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1988-04-06 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1988-04-06 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	1998-03-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-11-05 00:00:00.0
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-24 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-01-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-19 00:00:00.0
Actual Return to Compliance Date:	1994-01-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2001-02-22 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 2001-03-02 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2001-03-23 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 2006-02-22 00:00:00.0
Actual Return to Compliance Date: 2006-03-23 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2006-02-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1991-11-12 00:00:00.0
Actual Return to Compliance Date: 1992-08-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1987-03-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-07 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-04-13 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-01-27 00:00:00.0
Actual Return to Compliance Date:	1994-02-02 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1988-01-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 1987-05-17 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-23 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-03-03 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-06-03 00:00:00.0
Actual Return to Compliance Date: 1992-06-10 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1990-07-17 00:00:00.0
Actual Return to Compliance Date: 1992-08-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 1991-05-22 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-09-02 00:00:00.0
Actual Return to Compliance Date:	1992-09-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-18 00:00:00.0
Actual Return to Compliance Date: 1992-03-25 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-07 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-05-13 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-10-27 00:00:00.0
Actual Return to Compliance Date:	1990-11-06 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-06-18 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-06-24 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-05-19 00:00:00.0
Actual Return to Compliance Date:	1993-05-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-09 00:00:00.0
Actual Return to Compliance Date:	1994-02-16 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-27 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-06-03 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-06-10 00:00:00.0
Actual Return to Compliance Date:	1993-07-07 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-16 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-03-25 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-07-21 00:00:00.0
Actual Return to Compliance Date:	1993-08-11 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-02-10 00:00:00.0
Actual Return to Compliance Date: 1993-02-17 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-14 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-04-20 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2007-11-27 00:00:00.0
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	2007-11-27 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-05-05 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-10-06 00:00:00.0
Actual Return to Compliance Date: 1992-10-08 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 1989-06-28 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1998-11-25 00:00:00.0
Actual Return to Compliance Date:	1998-12-10 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1998-12-25 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1998-11-25 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-04-28 00:00:00.0
Actual Return to Compliance Date:	1995-03-21 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-05-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-05-19 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-08-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-08-10 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-07-07 00:00:00.0
Actual Return to Compliance Date:	1993-07-14 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 2007-01-22 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2007-01-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-03-10 00:00:00.0
Actual Return to Compliance Date:	1993-03-11 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	2006-02-22 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	506
Date of Enforcement Action:	2006-03-09 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-05 00:00:00.0
Actual Return to Compliance Date: 2007-11-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-03-17 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-05 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1989-06-28 00:00:00.0
Actual Return to Compliance Date: 1989-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1989-11-17 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1989-10-16 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1992-11-05 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	1995-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	64000
Paid Amount:	64000
Final Count:	1
Final Amount:	64000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-02-24 00:00:00.0
Actual Return to Compliance Date:	1993-03-01 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-03-12 00:00:00.0
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-04-13 00:00:00.0
Actual Return to Compliance Date: 1994-04-14 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1992-03-18 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-08-26 00:00:00.0
Actual Return to Compliance Date:	1992-09-02 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-03-02 00:00:00.0
Actual Return to Compliance Date: 1992-03-03 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	2007-01-22 00:00:00.0
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	507
Date of Enforcement Action:	2007-02-09 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1994-02-16 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1994-02-23 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1994-03-31 00:00:00.0
Actual Return to Compliance Date: 1994-04-01 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1990-11-08 00:00:00.0
Actual Return to Compliance Date:	1990-12-12 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-02-18 00:00:00.0
Actual Return to Compliance Date: 1992-02-25 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-01-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 1989-06-28 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 1988-09-26 00:00:00.0
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2007-11-27 00:00:00.0
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 2007-11-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2010-03-09 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date: 2010-03-09 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 2010-03-09 00:00:00.0
Enforcement Identifier: 601
Date of Enforcement Action: 2010-03-09 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 1992-05-06 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1992-05-07 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2007-11-27 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 2008-01-29 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-04-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-16 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-09-22 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Return to Compliance Date:	1993-10-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Former Citation:	Not reported
Evaluation Date:	1991-09-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-10-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-12-12 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-07-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-10-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-01-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-03-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-05-18 00:00:00.0
Scheduled Compliance Date:	1994-04-22 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1993-03-04 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-11-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-01-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-01-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-16 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-05-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-06-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-10-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-12-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1995-12-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-10-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-05-20 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-24 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-10-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-08-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-07-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-04-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2008-01-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-02-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-02-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-09 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-04 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1992-06-11 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1992-06-18 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1993-03-17 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1993-04-07 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1987-03-12 00:00:00.0
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1988-01-12 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1992-09-21 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1995-03-17 00:00:00.0
Scheduled Compliance Date: 1992-12-07 00:00:00.0
Date of Request: Not reported
Date Response Received: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-04-15 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-05-18 00:00:00.0
Scheduled Compliance Date:	1994-05-22 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-03-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2002-11-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-12 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-04-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-07-15 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-10-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-10-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1995-12-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-12-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-11 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-17 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-14 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-01-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-01 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-03-30 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-31 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-04-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-05-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-22 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-10-20 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-12-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-12-01 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1995-03-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-11-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-07-29 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-11-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-11-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-08-11 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-09-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-10-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-10-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-04-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	1992-12-07 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-10-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-10-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2001-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2001-03-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-02-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-08-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-09-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-11-18 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-09-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-07-14 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-05-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-01-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-10 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-08-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-10-01 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-10-08 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-02-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-10-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1991-11-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-12-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-01 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-07-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-12-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-25 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-04-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-06-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-06-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-07-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1998-03-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-04-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2017-01-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-01-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2001-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2001-03-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-01-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-07-24 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-04-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-02-23 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-08-14 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-06-03 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-12-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-07-17 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-09-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-11-24 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-01-12 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-05-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-05-13 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-10-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-11-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-09-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-06-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-24 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-05-19 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-26 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-09-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-28 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-02-09 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1992-05-27 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-06-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-07 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-10-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-03-16 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-03-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-08-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-02-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-02-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-01-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-07-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-14 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-20 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-04-28 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-10-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-10-06 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-10-08 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1998-11-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1998-12-10 00:00:00.0
Scheduled Compliance Date:	1998-12-25 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-04-28 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-05-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-05-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-05 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-08-10 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-07 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-10 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-11 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-02-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-11-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-10-27 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-05-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-06-28 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-11-30 00:00:00.0
Scheduled Compliance Date:	1989-11-17 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-09-21 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-03-17 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-02-24 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-03-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	1987-03-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-01-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-11-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-03-16 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1994-04-13 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-14 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-17 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-08-26 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-09-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-09-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-02 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-03-03 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-01-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-02-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-02-16 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-02-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-03-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-03-31 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-04-01 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-10-20 00:00:00.0
Evaluation Responsible Agency:	State

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-02-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2002-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-11-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-12-12 00:00:00.0

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-02-18 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-02-25 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1988-01-12 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-06-28 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-11-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2008-01-29 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-08-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Evaluation Date:	2010-03-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2010-03-09 00:00:00.0
Scheduled Compliance Date:	2010-03-09 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

LUCIS:

Name:	MCB CAMP PENDLETON
Address:	Not reported
City,State,Zip:	CA
FOIA Request:	Not reported
Site Name:	UST 001523
Site Description:	Not reported
Facility Status:	CA
Owner Name:	FACILITY ENGINEERING COMMAND, SOUTHWEST
Program Name:	Not reported
UIC Number:	M00681
Environment Zone Id Number:	M00681_000003
Environment Zone Description:	UST 001523
Type Of Environmental Zone:	Land use control zone
Land Use Control Description:	Former UST at Building 1523.
Restriction Type:	SOIL_DISTURBANCE
Restriction Type Defition:	Prohibits disturbance of surface or subsurface soil due to invasive activities such as construction, unless prior written approval of the Navy and lead regulatory agency is obtained.
Start Date Of Restriction:	28-May-19
Restriction Comments:	Under UST POL site ER,N Guidance.
LUC Status:	Unknown
LUC Status Date:	30-May-19
DOD Cmd:	SOUTHWEST

Name:	MCB CAMP PENDLETON
Address:	Not reported
City,State,Zip:	CA
FOIA Request:	Not reported
Site Name:	SITE 00007
Site Description:	BOX CANYON LANDFILL
Facility Status:	CA
Owner Name:	FACILITY ENGINEERING COMMAND, SOUTHWEST
Program Name:	Not reported
UIC Number:	M00681
Environment Zone Id Number:	M00681_000002
Environment Zone Description:	BOX CANYON LANDFILL
Type Of Environmental Zone:	Land use control zone
Land Use Control Description:	Box Canyon Landfill and two CAMUs placed over the landfill containing metal and pesticide impacted soils from other IR Sites on Camp Pendleton.
Restriction Type:	ACCESS
Restriction Type Defition:	Prohibits access, unless prior written approval of the Navy and lead regulatory agency is obtained.
Start Date Of Restriction:	1-Mar-99
Restriction Comments:	Not reported
LUC Status:	Original Plan
LUC Status Date:	3-Oct-11
DOD Cmd:	SOUTHWEST

SIte:

Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
Address 2:	Not reported
City,State,Zip:	CAMP PENDLETON, CA 92055
Event Code:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Action Taken Date:	03/20/2015
EPA ID:	CA2170023533
Action Name:	Record of Decision
Action ID:	6
Operable Unit:	06
Contaminated Media:	Soil
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2015
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

Media:

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/22/2004
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	03
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/27/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	2
Operable Unit:	03
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/27/2008
Event Code:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Solid Waste
Action ID:	3
Operable Unit:	03
Action Name:	Explanation of Significant Differences
Action Taken Date:	07/09/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	12/07/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	12/07/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Surface Water
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Soil

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Sediment
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Surface Water
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	4
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	06/15/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	4

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	06/15/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	4
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	06/15/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	5
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/21/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	5
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/21/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	5
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/21/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	6
Operable Unit:	06
Action Name:	Record of Decision
Action Taken Date:	03/20/2015
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2015
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	11
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	04/19/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	11
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	04/19/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	07
Action Name:	Record of Decision
Action Taken Date:	12/16/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	07
Action Name:	Record of Decision
Action Taken Date:	12/16/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800
EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	07

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Action Name:	Record of Decision
Action Taken Date:	12/16/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	07
Action Name:	Record of Decision
Action Taken Date:	12/16/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	12/07/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/11/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1999
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	4
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	06/15/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	4
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	06/15/2007

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Soil
Action ID:	5
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/21/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Not reported
Action ID:	1
Operable Unit:	07
Action Name:	ROD Amendment
Action Taken Date:	12/16/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

EPA ID:	CA2170023533
Contaminated Media:	Not reported
Action ID:	7
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/28/2014
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.306669
Longitude: -117.340800

US INST CONTROLS:

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
Address 2: Not reported
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
Action Name: Record of Decision
Action ID: 1
Operable Unit: 01
Actual Date: 12/07/1995
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.306669
Longitude: -117.340800

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
Address 2: Not reported
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
Action Name: Record of Decision
Action ID: 3
Operable Unit: 03
Actual Date: 02/11/1999
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1999
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.306669
Longitude: -117.340800

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
Address 2: Not reported
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
Action Name: Record of Decision
Action ID: 19
Operable Unit: 07

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Actual Date:	12/16/2013
Contaminated Media:	Groundwater
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.306669
Longitude:	-117.340800

ROD:

Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
City,State,Zip:	CAMP PENDLETON, CA 92055
EPA ID:	CA2170023533
RG:	9
Site ID:	902732
Action:	FF ESD
Operable Unit Number:	OVERALL SITE
SEQ ID:	1
Action Completion:	2004-09-22 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
City,State,Zip:	CAMP PENDLETON, CA 92055
EPA ID:	CA2170023533
RG:	9
Site ID:	902732
Action:	FF ESD
Operable Unit Number:	OU-3
SEQ ID:	2
Action Completion:	2008-05-27 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
City,State,Zip:	CAMP PENDLETON, CA 92055
EPA ID:	CA2170023533
RG:	9
Site ID:	902732
Action:	FF ESD
Operable Unit Number:	OU-3
SEQ ID:	3
Action Completion:	2010-07-09 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	CAMP PENDLETON MARINE CORPS BASE
Address:	CAMP PENDLETON MARINE BASE
City,State,Zip:	CAMP PENDLETON, CA 92055
EPA ID:	CA2170023533

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

RG: 9
Site ID: 902732
Action: FF ESD
Operable Unit Number: OU-5
SEQ ID: 4
Action Completion: 2019-07-31 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OVERALL SITE
SEQ ID: 1
Action Completion: 1995-12-07 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-2
SEQ ID: 2
Action Completion: 1997-09-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-3
SEQ ID: 3
Action Completion: 1999-02-11 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-4
SEQ ID: 4

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Action Completion: 2007-06-15 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-5
SEQ ID: 5
Action Completion: 2008-02-21 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-5
SEQ ID: 7
Action Completion: 2014-02-28 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: GROUNDWATER
SEQ ID: 19
Action Completion: 2013-12-16 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: OU-6
SEQ ID: 20
Action Completion: 2018-02-16 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: FF ROD Amendment
Operable Unit Number: GROUNDWATER
SEQ ID: 1
Action Completion: 2013-12-16 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: GOVT Decision Document (ROD)
Operable Unit Number: OU-6
SEQ ID: 6
Action Completion: 2015-03-20 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: CAMP PENDLETON MARINE CORPS BASE
Address: CAMP PENDLETON MARINE BASE
City,State,Zip: CAMP PENDLETON, CA 92055
EPA ID: CA2170023533
RG: 9
Site ID: 902732
Action: GOVT Decision Document (ROD)
Operable Unit Number: OU-5
SEQ ID: 11
Action Completion: 2013-04-19 00:00:00
NPL Status: Final
Non NPL Status: Not reported

RAATS:
Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 1 262.11
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: .00
Final Penalty: .00
Total Prop. Penalty: .00

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 2 270.1
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 3 265.173(A)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 4 265.173(B)
Total No Cited: Not reported
Reg Type: CFR

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 5 265.174
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 6 262.34(A)(2)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Viol No Cited: 7 267.34(A)(3)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 8 265.33
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 3126
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 9 265.16(B)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: AMENDED FFCA ISSUED ON 6/18/92

Entry No: 1
Facility ID: CA2170023533
Type: Not reported
Docket No: Not reported
Region: 09
Issue Date: 06/18/1992
Final Date: 12/10/1991
Status: Federal Facility Compliance Agreement
Additional: Not reported

CAMP PENDLETON MARINE CORPS BASE (Continued) **1000344642**

Action ID:	3126
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	10 265.16(D)(3)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	AMENDED FFCA ISSUED ON 6/18/92

PRP:

PRP Name:	NAVAL FACILITIES ENGINEERING COMMAND STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES STATE OF CALIFORNIA/DEPT. OF WATER QUALITY STATE OF CALIFORNIA/DEPT. OF WATER QUALITY STATE OF CALIFORNIA/DEPT. OF WATER QUALITY USM CORP. USM CORP.

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2 **ADRIANA READY** **RCRA NonGen / NLR** **1026471494**
South **446 W. REDONDO DR.** **CAC003077081**
< 1/8 **OCEANSIDE, CA 92057**
0.039 mi.
206 ft.

Relative:
Higher

Actual:
118 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-07-30 00:00:00.0
Handler Name:	ADRIANA READY	
Handler Address:		446 W. REDONDO DR.
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC003077081
Contact Name:		ADRIANA READY
Contact Address:		446 W. REDONDO DR.
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		760-557-5736
Contact Fax:		Not reported
Contact Email:		SDABATEMENT@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		446 W. REDONDO DR.
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		ADRIANA READY
Owner Type:		Other
Operator Name:		ADRIANA READY
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

ADRIANA READY (Continued) **1026471494**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-08-14 15:09:49.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ADRIANA READY

ADRIANA READY (Continued) **1026471494**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	446 W. REDONDO DR.
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-557-5736
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ADRIANA READY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	446 W. REDONDO DR.
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-557-5736
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-07-30 00:00:00.0
Handler Name: ADRIANA READY	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A3
SSE
< 1/8
0.061 mi.
324 ft.

MARGARITA FRIAS
4940 SIESTA DR
OCEANSIDE, CA 92057

Site 1 of 3 in cluster A

RCRA NonGen / NLR | **1025857403** / **CAC003037826**

Relative:
Higher

Actual:
121 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-10-08 00:00:00.0
Handler Name:	MARGARITA FRIAS	
Handler Address:		4940 SIESTA DR
Handler City,State,Zip:		OCEANSIDE, CA 92057-4322
EPA ID:		CAC003037826
Contact Name:		MARGARITA FRIAS
Contact Address:		4940 SIESTA DR
Contact City,State,Zip:		OCEANSIDE, CA 92057-4322
Contact Telephone:		760-681-8639
Contact Fax:		Not reported
Contact Email:		ADMIN@VIKINGENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4940 SIESTA DR
Mailing City,State,Zip:		OCEANSIDE, CA 92057-4322
Owner Name:		MARGARITA FRIAS
Owner Type:		Other
Operator Name:		MARGARITA FRIAS
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

MARGARITA FRIAS (Continued) **1025857403**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-10-11 18:28:59.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARGARITA FRIAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4940 SIESTA DR
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057-4322
Owner/Operator Telephone:	760-681-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARGARITA FRIAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4940 SIESTA DR
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057-4322
Owner/Operator Telephone:	760-681-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MARGARITA FRIAS (Continued) **1025857403**

Historic Generators:
- Receive Date: 2019-10-08 00:00:00.0
- Handler Name: MARGARITA FRIAS
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

A4 **CURT PRICE** **RCRA NonGen / NLR** **1025845216**
SSE **4937 SIESTA DR.** **CAC003024837**
< 1/8 **OCEANSIDE, CA 92057**
0.072 mi.
378 ft. **Site 2 of 3 in cluster A**

Relative: **Higher**
Actual: **120 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2019-07-19 00:00:00.0
- Handler Name: CURT PRICE
- Handler Address: 4937 SIESTA DR.
- Handler City,State,Zip: OCEANSIDE, CA 92057
- EPA ID: CAC003024837
- Contact Name: CURT PRICE
- Contact Address: 4937 SIESTA DR.
- Contact City,State,Zip: OCEANSIDE, CA 92057
- Contact Telephone: 619-576-0863
- Contact Fax: Not reported
- Contact Email: NANCYL@PWSEI.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Handler Activities
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 4937 SIESTA DR.
- Mailing City,State,Zip: OCEANSIDE, CA 92057
- Owner Name: CURT PRICE

CURT PRICE (Continued) **1025845216**

Owner Type:	Other
Operator Name:	CURT PRICE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-07-29 17:13:13.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

CURT PRICE (Continued) **1025845216**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CURT PRICE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4937 SIESTA DR.
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057
Owner/Operator Telephone: 619-576-0863
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CURT PRICE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4937 SIESTA DR.
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057
Owner/Operator Telephone: 619-576-0863
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-07-19 00:00:00.0
Handler Name: CURT PRICE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

5
SSW
< 1/8
0.080 mi.
425 ft.

KARIN CAUSEY
445 WEST REDONDO DRIVE
OCEANSIDE, CA 92057

RCRA NonGen / NLR

1024756435
CAC002976261

Relative:
Higher

Actual:
109 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2018-08-17 00:00:00.0
Handler Name:	KARIN CAUSEY	
Handler Address:		445 WEST REDONDO DRIVE
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC002976261
Contact Name:		KARIN CAUSEY
Contact Address:		445 WEST REDONDO DRIVE
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		760-822-2435
Contact Fax:		Not reported
Contact Email:		INFO@JJANDSCONSTRUCTION.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		445 WEST REDONDO DRIVE
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		KARIN CAUSEY
Owner Type:		Other
Operator Name:		KARIN CAUSEY
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

KARIN CAUSEY (Continued) **1024756435**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:39:17.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KARIN CAUSEY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	445 WEST REDONDO DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-822-2435
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KARIN CAUSEY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	445 WEST REDONDO DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-822-2435
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

KARIN CAUSEY (Continued) **1024756435**

Historic Generators:
- Receive Date: 2018-08-17 00:00:00.0
- Handler Name: KARIN CAUSEY
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

A6 **LANIE PARILLA** **RCRA NonGen / NLR** **1024756208**
SE **4946 ROJA DRIVE** **CAC002976033**
< 1/8 **OCEANSIDE, CA 92057**
0.087 mi.
458 ft. **Site 3 of 3 in cluster A**

Relative: **Higher**
Actual: **121 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2018-08-16 00:00:00.0
- Handler Name: LANIE PARILLA
- Handler Address: 4946 ROJA DRIVE
- Handler City,State,Zip: OCEANSIDE, CA 92057
- EPA ID: CAC002976033
- Contact Name: LANIE PARILLA
- Contact Address: 4946 ROJA DRIVE
- Contact City,State,Zip: OCEANSIDE, CA 92057
- Contact Telephone: 760-908-5688
- Contact Fax: Not reported
- Contact Email: CINDYEDWARDS@ALLIANCE-ENVIRO.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Handler Activities
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 4946 ROJA DRIVE
- Mailing City,State,Zip: OCEANSIDE, CA 92057
- Owner Name: LANIE PARILLA

LANIE PARILLA (Continued) **1024756208**

Owner Type:	Other
Operator Name:	LANIE PARILLA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:39:13.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

LANIE PARILLA (Continued) **1024756208**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LANIE PARILLA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4946 ROJA DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-908-5688
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANIE PARILLA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4946 ROJA DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-908-5688
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-08-16 00:00:00.0
Handler Name: LANIE PARILLA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

7
ENE
< 1/8
0.108 mi.
569 ft.

MEGAN MANSYUR
567 GOLD DRIVE
OCEANSIDE, CA 92057

RCRA NonGen / NLR

1024750983
CAC002970773

Relative:
Higher

Actual:
130 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2018-07-13 00:00:00.0
Handler Name:	MEGAN MANSYUR	
Handler Address:		567 GOLD DRIVE
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC002970773
Contact Name:		MEGAN MANSYUR
Contact Address:		567 GOLD DRIVE
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		619-850-9190
Contact Fax:		Not reported
Contact Email:		SOCALREMEDIATION@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		567 GOLD DRIVE
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		MEGAN MANSYUR
Owner Type:		Other
Operator Name:		MEGAN MANSYUR
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

MEGAN MANSYUR (Continued) **1024750983**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-08-30 13:25:11.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MEGAN MANSYUR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	567 GOLD DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	619-850-9190
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MEGAN MANSYUR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	567 GOLD DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	619-850-9190
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MEGAN MANSYUR (Continued) **1024750983**

Historic Generators:
- Receive Date: 2018-07-13 00:00:00.0
- Handler Name: MEGAN MANSYUR
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

B8 **GARCIA JAMES & GABRIELA** **RCRA NonGen / NLR** **1026713122**
SSE **4929 SIESTA DR** **CAC003101401**
< 1/8 **OCEANSIDE, CA 92057**
0.112 mi.
592 ft. **Site 1 of 2 in cluster B**

Relative: **Higher**
Actual: **114 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2021-01-18 00:00:00.0
- Handler Name: GARCIA JAMES & GABRIELA
- Handler Address: 4929 SIESTA DR
- Handler City,State,Zip: OCEANSIDE, CA 92057
- EPA ID: CAC003101401
- Contact Name: JAMES GARCIA
- Contact Address: 4929 SIESTA DR
- Contact City,State,Zip: OCEANSIDE, CA 92057
- Contact Telephone: 760-390-1152
- Contact Fax: Not reported
- Contact Email: JAYGEEE1234@GMAIL.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 4929 SIESTA DR
- Mailing City,State,Zip: OCEANSIDE, CA 92057
- Owner Name: JAMES GARCIA

GARCIA JAMES & GABRIELA (Continued) **1026713122**

Owner Type:	Other
Operator Name:	JAMES GARCIA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2021-02-26 18:44:32.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

GARCIA JAMES & GABRIELA (Continued) **1026713122**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: JAMES GARCIA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4929 SIESTA DR
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057
Owner/Operator Telephone: 760-390-1152
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JAMES GARCIA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4929 SIESTA DR
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057
Owner/Operator Telephone: 760-390-1152
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2021-01-18 00:00:00.0
Handler Name: GARCIA JAMES & GABRIELA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

9
North
1/8-1/4
0.139 mi.
733 ft.

EDWARD FOY
617 MONICA CIRCLE
OCEANSIDE, CA 92057

RCRA NonGen / NLR

1026046497
CAC003052965

Relative:
Higher

Actual:
120 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-01-27 00:00:00.0
Handler Name:	EDWARD FOY	
Handler Address:		617 MONICA CIRCLE
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC003052965
Contact Name:		EDWARD FOY
Contact Address:		617 MONICA CIRCLE
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		858-258-9000
Contact Fax:		Not reported
Contact Email:		SADIED@PWSEI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		617 MONICA CIRCLE
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		EDWARD FOY
Owner Type:		Other
Operator Name:		EDWARD FOY
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

EDWARD FOY (Continued) **1026046497**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-02-10 17:53:12.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EDWARD FOY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	617 MONICA CIRCLE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-439-2455
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EDWARD FOY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	617 MONICA CIRCLE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	858-258-9000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

EDWARD FOY (Continued) **1026046497**

Historic Generators:
- Receive Date: 2020-01-27 00:00:00.0
- Handler Name: EDWARD FOY
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

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10 South 1/8-1/4 0.151 mi. 798 ft.

STANLEY LASZCZYK
4909 VERDE DR
OCEANSIDE, CA 92057

RCRA NonGen / NLR **1025864371**
CAC003045193

Relative: Higher

Actual: 103 ft.

RCRA NonGen / NLR:
- Date Form Received by Agency: 2019-11-27 00:00:00.0
- Handler Name: STANLEY LASZCZYK
- Handler Address: 4909 VERDE DR
- Handler City,State,Zip: OCEANSIDE, CA 92057-4325
- EPA ID: CAC003045193
- Contact Name: STANLEY LASZCZYK
- Contact Address: 4909 VERDE DR
- Contact City,State,Zip: OCEANSIDE, CA 92057-4325
- Contact Telephone: 909-762-7548
- Contact Fax: Not reported
- Contact Email: SLASZCZY@GMAIL.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 4909 VERDE DR
- Mailing City,State,Zip: OCEANSIDE, CA 92057-4325
- Owner Name: STANLEY LASZCZYK

STANLEY LASZCZYK (Continued) **1025864371**

Owner Type:	Other
Operator Name:	STANLEY LASZCZYK
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-12-06 16:31:08.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

STANLEY LASZCZYK (Continued) **1025864371**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: STANLEY LASZCZYK
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4909 VERDE DR
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057-4325
Owner/Operator Telephone: 909-762-7548
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: STANLEY LASZCZYK
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4909 VERDE DR
Owner/Operator City,State,Zip: OCEANSIDE, CA 92057-4325
Owner/Operator Telephone: 909-762-7548
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-11-27 00:00:00.0
Handler Name: STANLEY LASZCZYK
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B11 **TAMIKO SGUNA** **RCRA NonGen / NLR** **1026471973**
SSE **4922 SIESTA DR.** **CAC003077584**
1/8-1/4 **OCEANSIDE, CA 92056**
0.154 mi.
812 ft. **Site 2 of 2 in cluster B**

Relative: **Higher**
Actual: **109 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-08-03 00:00:00.0
Handler Name:	TAMIKO SGUNA	
Handler Address:		4922 SIESTA DR.
Handler City,State,Zip:		OCEANSIDE, CA 92056
EPA ID:		CAC003077584
Contact Name:		TAMIKO SGUNA
Contact Address:		4922 SIESTA DR.
Contact City,State,Zip:		OCEANSIDE, CA 92056
Contact Telephone:		760-757-9207
Contact Fax:		Not reported
Contact Email:		NANCYL@PWSEI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4922 SIESTA DR.
Mailing City,State,Zip:		OCEANSIDE, CA 92056
Owner Name:		TAMIKO SGUNA
Owner Type:		Other
Operator Name:		TAMIKO SGUNA
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

TAMIKO SGUNA (Continued) **1026471973**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-08-14 15:09:58.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TAMIKO SGUNA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4922 SIESTA DR.
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92056
Owner/Operator Telephone:	760-757-9207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TAMIKO SGUNA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4922 SIESTA DR.
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92056
Owner/Operator Telephone:	760-757-9207
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TAMIKO SGUNA (Continued) **1026471973**

Historic Generators:
Receive Date: 2020-08-03 00:00:00.0
Handler Name: TAMIKO SGUNA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C12 **CHRIS TINOSO** **RCRA NonGen / NLR** **1025839337**
NNE **645 ADOBE CIR** **CAC003018937**
1/8-1/4 **OCEANSIDE, CA 92057**
0.168 mi.
887 ft. **Site 1 of 2 in cluster C**

Relative: **Lower**
Actual: **83 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2019-06-10 00:00:00.0
Handler Name: CHRIS TINOSO
Handler Address: 645 ADOBE CIR
Handler City,State,Zip: OCEANSIDE, CA 92057
EPA ID: CAC003018937
Contact Name: CHRIS TINOSO
Contact Address: 645 ADOBE CIR
Contact City,State,Zip: OCEANSIDE, CA 92057
Contact Telephone: 760-846-2866
Contact Fax: Not reported
Contact Email: CHRISJHO@HOTMAIL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 645 ADOBE CIR
Mailing City,State,Zip: OCEANSIDE, CA 92057
Owner Name: CHRIS TINOSO

CHRIS TINOSO (Continued) **1025839337**

Owner Type:	Other
Operator Name:	CHRIS TINOSO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-06-27 14:19:44.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

CHRIS TINOSO (Continued) **1025839337**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHRIS TINOSO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	645 ADOBE CIR
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-846-2866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHRIS TINOSO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	645 ADOBE CIR
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	760-846-2866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-06-10 00:00:00.0
Handler Name: CHRIS TINOSO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

D13 **7-ELEVEN STORE 20342** **RCRA NonGen / NLR** **1024782864**
ESE **487 VANDEGRIFT BLVD** **CAD981406812**
1/8-1/4 **OCEANSIDE, CA 92057**
0.180 mi.
951 ft. **Site 1 of 6 in cluster D**

Relative: **Higher**
Actual: **121 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1987-04-10 00:00:00.0
Handler Name:	7-ELEVEN STORE 20342	
Handler Address:		487 VANDEGRIFT BLVD
Handler City,State,Zip:		OCEANSIDE, CA 92057-4335
EPA ID:		CAD981406812
Contact Name:		JOSE RIOS
Contact Address:		1722 ROUTH STREET
Contact City,State,Zip:		DALLAS, TX 75201
Contact Telephone:		972-828-6592
Contact Fax:		972-828-1095
Contact Email:		JOSE.RIOS@7-11.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 711
Mailing City,State,Zip:		DALLAS, TX 75221
Owner Name:		7-ELEVEN INC.
Owner Type:		Other
Operator Name:		JOSE RIOS
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

7-ELEVEN STORE 20342 (Continued) **1024782864**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-08-31 17:13:45.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	7-ELEVEN INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 711
Owner/Operator City,State,Zip:	DALLAS, TX 75221
Owner/Operator Telephone:	714-771-5484
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOSE RIOS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1722 ROUTH STREET
Owner/Operator City,State,Zip:	DALLAS, TX 75201
Owner/Operator Telephone:	972-828-6592
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

7-ELEVEN STORE 20342 (Continued) **1024782864**

Historic Generators:
- Receive Date: 1987-04-10 00:00:00.0
- Handler Name: 7-ELEVEN STORE 20342
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 44719
- NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

D14 **7-ELEVEN FOOD STORE #20342** **UST** **U003937299**
ESE **487 VANDEGRIFT BLVD # 20342** **N/A**
1/8-1/4 **OCEANSIDE, CA 92057**
0.180 mi.
951 ft. **Site 2 of 6 in cluster D**

Relative:
Higher

Actual:
121 ft.

UST:
- Name: 7-ELEVEN FOOD STORE #20342
- Address: 487 VANDEGRIFT BLVD # 20342
- City,State,Zip: OCEANSIDE, CA 92057
- Facility ID: H20649
- Permitting Agency: SAN DIEGO COUNTY
- Latitude: 33.25587
- Longitude: -117.2986669

- Name: 7-ELEVEN INC #20342
- Address: 487 VANDEGRIFT BLVD
- City,State,Zip: OCEANSIDE, CA 92057
- Facility ID: 37-000-120649
- Permitting Agency: San Diego County Department of Environmental Health
- Latitude: 33.2546
- Longitude: -117.29993

D15 **7 ELEVEN FOOD STORES** **CERS HAZ WASTE** **1006826991**
ESE **487 VANDEGRIFT BL** **CERS TANKS** **N/A**
1/8-1/4 **OCEANSIDE, CA 92054** **EMI**
0.180 mi. **CERS**
951 ft. **Site 3 of 6 in cluster D**

Relative:
Higher

Actual:
121 ft.

CERS HAZ WASTE:

Name:	7-ELEVEN INC #20342
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Site ID:	87880
CERS ID:	10165875
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	7-ELEVEN INC #20342
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Site ID:	87880
CERS ID:	10165875
CERS Description:	Underground Storage Tank

EMI:

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0

7 ELEVEN FOOD STORES (Continued) **1006826991**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

7 ELEVEN FOOD STORES (Continued) **1006826991**

Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.0175984
Reactive Organic Gases Tons/Yr:	1.0175984
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.0175984
Reactive Organic Gases Tons/Yr:	1.0175984
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	7 ELEVEN FOOD STORES
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541

7 ELEVEN FOOD STORES (Continued) **1006826991**

Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	7 ELEVEN FOOD STORES
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	7 ELEVEN FOOD STORES
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2009
County Code:	37
Air Basin:	SD

7 ELEVEN FOOD STORES (Continued) **1006826991**

Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.6599999999999999
Reactive Organic Gases Tons/Yr:	1.6599999999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2010
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.6599999999999999
Reactive Organic Gases Tons/Yr:	1.6599999999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2011
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054

7 ELEVEN FOOD STORES (Continued) **1006826991**

Year:	2012
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2013
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2014
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

7 ELEVEN FOOD STORES (Continued) **1006826991**

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2015
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2016
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	SOUTHLAND / VANDERGRIFT BLVD O
Address:	487 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Year:	2017
County Code:	37
Air Basin:	SD
Facility ID:	2122
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.66
Reactive Organic Gases Tons/Yr:	1.66
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported

7 ELEVEN FOOD STORES (Continued) **1006826991**

Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

Name: SOUTHLAND / VANDERGRIFT BLVD O
Address: 487 VANDEGRIFT BL
City,State,Zip: OCEANSIDE, CA 92054
Year: 2018
County Code: 37
Air Basin: SD
Facility ID: 2122
Air District Name: SD
SIC Code: 5541
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.66
Reactive Organic Gases Tons/Yr: 1.66
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

Name: SOUTHLAND / VANDERGRIFT BLVD O
Address: 487 VANDEGRIFT BL
City,State,Zip: OCEANSIDE, CA 92054
Year: 2019
County Code: 37
Air Basin: SD
Facility ID: 2122
Air District Name: SD
SIC Code: 5541
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.66
Reactive Organic Gases Tons/Yr: 1.66
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

CERS:
Name: 7-ELEVEN INC #20342
Address: 487 VANDEGRIFT BLVD
City,State,Zip: OCEANSIDE, CA 92057
Site ID: 87880
CERS ID: 10165875
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 87880
Site Name: 7-Eleven INC #20342
Violation Date: 08-29-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665

7 ELEVEN FOOD STORES (Continued) **1006826991**

Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 08/29/2018. Inspection Sequence ID:5958659;Tank ID:32279,32280;Violation Description:(RP) Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90% full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30m before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95% of capacity; and activate an audible alarm at least 5m before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95% of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. 23 CCR 2635(b)(2), 2665
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	08-29-2018
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/29/2018. Inspection Sequence ID:5958659;Tank ID:32279;Violation Description:(RD) Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly. with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected. 23 CCR 2636(f)(2)
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	08-15-2019
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:

7 ELEVEN FOOD STORES (Continued) **1006826991**

	Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/15/2019. Inspection Sequence ID:6226117;Tank ID:32279;Violation Description:(TCR 9d) Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly. with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected. 23 CCR 2636(f)(2)
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	08-29-2018
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 08/29/2018. Inspection Sequence ID:5958659;Tank ID:32279;Violation Description:(RD) Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly. 23 CCR 2638(a), 2641(j)
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	08-30-2017
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/30/2017. Inspection Sequence ID:5711990;Tank ID:32280,32279;Violation Description:(RD) Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly, be capable of detecting a release of 3.0 gallons per hour, restrict or shut off the flow of product through the piping or trigger an alarm when a leak is detected. 23 CCR 2636(f)(2)
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	09-02-2015
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank,

7 ELEVEN FOOD STORES (Continued) **1006826991**

	piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 09/02/2015.
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	09-02-2015
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the spill bucket to have a minimum capacity of five gallons.
Violation Notes:	Returned to compliance on 09/28/2015.
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	09-02-2015
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 09/02/2015.
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	09-17-2013
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 10/16/2013.
Violation Division:	San Diego County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	87880
Site Name:	7-Eleven INC #20342
Violation Date:	08-30-2017
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.
Violation Notes:	Returned to compliance on 08/30/2017. Inspection Sequence

7 ELEVEN FOOD STORES (Continued) **1006826991**

ID:5711990;Tank ID:32280;Violation Description:(RD) Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at dispenser when a leak is detected. 23 CCR 2636(f)(1)

Violation Division: San Diego County Department of Env Health
Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-15-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:6226117
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5958659
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5958659
Eval Division: San Diego County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5711990
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5711990
Eval Division: San Diego County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2016
Violations Found: No

7 ELEVEN FOOD STORES (Continued) **1006826991**

Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Oglesby Margaret Inspection ID:5484016
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Fernandez Juan Inspection ID:4970420
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Fernandez Juan Inspection ID:4970420
Eval Division:	San Diego County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Tank HT201 Inspection ID:4088772
Eval Division:	San Diego County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Tank HT201 Inspection ID:4088772
Eval Division:	San Diego County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-06-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	"No On-site Inspection" Inspector: Beacon Ellen Inspection ID:6552077
Eval Division:	San Diego County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Beacon Ellen Inspection ID:6226117
Eval Division:	San Diego County Department of Env Health

7 ELEVEN FOOD STORES (Continued) **1006826991**

Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5958659
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Beacon Ellen Inspection ID:5711990
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Oglesby Margaret Inspection ID:5165411
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector: Oglesby Margaret Inspection ID:5165411
Eval Division: San Diego County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Oglesby Margaret Inspection ID:5484016
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Fernandez Juan Inspection ID:4970420
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

7 ELEVEN FOOD STORES (Continued) **1006826991**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Oglesby Margaret Inspection ID:5165411
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-02-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Oglesby Margaret Inspection ID:5484016
Eval Division:	San Diego County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Tank HT201 Inspection ID:4088772
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Beacon Ellen Inspection ID:6226117
Eval Division:	San Diego County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	87880
Facility Name:	7-Eleven INC #20342
Env Int Type Code:	HWG
Program ID:	10165875
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.254600
Longitude:	-117.299930

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Diego County Env Health Qlty
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

7 ELEVEN FOOD STORES (Continued) **1006826991**

Affiliation Type Desc:	Identification Signer
Entity Name:	STEPHEN BOYD
Entity Title:	REGIONAL GASOLINE ENVIRONMENTAL COMPLIANCE MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	7-ELEVEN INC EMPLOYEES' TRUST
Entity Title:	Not reported
Affiliation Address:	PO BOX 711, ATTN: ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75221
Affiliation Phone:	(800) 828-0711

Affiliation Type Desc:	Document Preparer
Entity Name:	Steve Skanderson, Stantec
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 711, ATTN: ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75221
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	SUDAGAR & MELANA SINGH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 433-6182

Affiliation Type Desc:	Parent Corporation
Entity Name:	7-ELEVEN INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

7 ELEVEN FOOD STORES (Continued) **1006826991**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	STEPHEN BOYD
Entity Title:	REGIONAL GASOLINE ENVIRONMENTAL COMPLIANCE MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 771-5484
Affiliation Type Desc:	Environmental Contact
Entity Name:	JAMIL HERSHEWE
Entity Title:	Not reported
Affiliation Address:	PO BOX 711, ATTN: ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75221
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	7-ELEVEN INC EMPLOYEES' TRUST
Entity Title:	Not reported
Affiliation Address:	515 S FLOWER ST STE 2700
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90071
Affiliation Phone:	(800) 828-0711
Affiliation Type Desc:	Legal Owner
Entity Name:	7-ELEVEN INC
Entity Title:	Not reported
Affiliation Address:	PO BOX 711, ATTN: ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75221
Affiliation Phone:	(800) 828-0711
Affiliation Type Desc:	UST Tank Operator
Entity Name:	SUDAGAR & MELANA SINGH
Entity Title:	Not reported
Affiliation Address:	487 VANDERGRIFT BLVD
Affiliation City:	OCEANSIDE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92057
Affiliation Phone:	(760) 433-6182
Affiliation Type Desc:	UST Tank Owner
Entity Name:	7-ELEVEN INC
Entity Title:	Not reported
Affiliation Address:	PO BOX 711, ATTN: ENVIRONMENTAL DEPARTMENT

7 ELEVEN FOOD STORES (Continued) **1006826991**

Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75221
Affiliation Phone:	(800) 828-0711

D16 **7-ELEVEN STORE #20342** **LUST** **S101301847**
ESE **487 VANDEGRIFT** **ENF** **N/A**
1/8-1/4 **OCEANSIDE, CA 92054** **HIST CORTESE**
0.180 mi. **CIWQS**
951 ft. **Site 4 of 6 in cluster D**

Relative: Higher

Actual: 121 ft.

LUST REG 9:

Region:	9
Status:	Remedial action (cleanup) Underway
Case Number:	9UT2563
Local Case:	H20649-003
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	09/13/1993
Date Stopped:	09/13/1993
Confirm Date:	08/31/1993
Submit Workplan:	10/5/93
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	02/07/1994
Remed Action:	3/1/97
Began Monitor:	Not reported
Release Date:	10/05/1993
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	903.11
GW Depth:	Not reported
Beneficial Use:	Municipal groundwater use
NPDES Number:	96-41
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

ENF:

Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA

7-ELEVEN STORE #20342 (Continued) **S101301847**

Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996
Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported

7-ELEVEN STORE #20342 (Continued) **S101301847**

WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	252168
Region:	9
Order / Resolution Number:	R9-2004-0113
Enforcement Action Type:	Admin Civil Liability
Effective Date:	05/12/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/23/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	ACL/MMP Order R9-2004-0113 for $3,000 against Southland Corp
Description:	$3,000 Complaint for Mandatory Minimum Penalty against Southland Corp. for Total Nitrogen value of 3.9 mg./L, greater than 40% of discharge specification of 2 mg/L. On 12 May 2004, the Regional Board adopted an ACL MMP Order for $3,000.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	6/23/2004
# Of Programs1:	1
Total Assessment Amount:	3000
Initial Assessed Amount:	0
Liability $ Amount:	3000
Project $ Amount:	0
Liability $ Paid:	3000
Project $ Completed:	0
Total $ Paid/Completed Amount:	3000

Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

7-ELEVEN STORE #20342 (Continued) **S101301847**

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996
Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	250991
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	02/11/1998
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/11/1998
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000795
Description:	SEL noticing of benzene violation. SEL also acknowledged receipt of November and December 1997 monthly monitoring

7-ELEVEN STORE #20342 (Continued) **S101301847**

	report.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002

7-ELEVEN STORE #20342 (Continued) **S101301847**

Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996
Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	250989
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	12/12/1997
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	12/12/1997
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000795
Description:	SEL noticing of chronic toxicity violation. SEL also acknowledged receipt of September and October 1997 monthly monitoring report, and 3rd quarter 1997 monitoring report.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business

7-ELEVEN STORE #20342 (Continued) **S101301847**

# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996
Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	250987

7-ELEVEN STORE #20342 (Continued) **S101301847**

Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	09/03/1997
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	09/03/1997
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000795
Description:	SEL noticing of Total Phosphorus and chronic toxicity violations. SEL also acknowledged receipt of June 1997 monthly monitoring report, 2nd quarter 1997 monitoring report, and 1st half semiannual monitoring report.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.

7-ELEVEN STORE #20342 (Continued) **S101301847**

Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996
Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	250903
Region:	9
Order / Resolution Number:	R9-2004-0059
Enforcement Action Type:	Admin Civil Liability
Effective Date:	02/26/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Withdrawn
Title:	Enforcement - 9 000000795
Description:	$3,000 Complaint for Mandatory Minimum Penalty against Southland Corp. for Total Nitrogen value of 3.9 mg./L, greater than 40% of discharge specification of 2 mg/L.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0

7-ELEVEN STORE #20342 (Continued) **S101301847**

Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Region:	9
Facility Id:	203547
Agency Name:	Southland Corporation Portland
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.4
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000795
Reg Measure Id:	213974
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/13/1996

7-ELEVEN STORE #20342 (Continued) **S101301847**

Effective Date:	06/13/1996
Expiration/Review Date:	Not reported
Termination Date:	10/09/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	235877
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	03/13/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	03/13/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000795
Description:	Copper levels exceeded permit discharge limits in January 2001.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

edr_fname:	7-ELEVEN STORE #20342
edr_fadd1:	487 VANDEGRIFT
City,State,Zip:	OCEANSIDE, CA 92054
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2563

CIWQS:

Name:	7-11 STORE #20342 REMED
Address:	487 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA
Agency:	Southland Corporation Portland
Agency Address:	10220 Southwest Greenburg Road 470, Portland, OR 97223
Place/Project Type:	Other
SIC/NAICS:	5541
Region:	9

7-ELEVEN STORE #20342 (Continued) **S101301847**

Program:	NPDNONMUNIPRCS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	01-096
WDID:	9 000000795
NPDES Number:	CAG919002
Adoption Date:	Not reported
Effective Date:	06/13/1996
Termination Date:	10/09/2001
Expiration/Review Date:	Not reported
Design Flow:	0.4
Major/Minor:	Not reported
Complexity:	A
TTWQ:	3
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

D17 **7-ELEVEN FOOD STORE 20342** **LUST** **1000281950**
ESE **487 VANDERGRIFT** **CPS-SLIC** **N/A**
1/8-1/4 **OCEANSIDE, CA 92054** **San Diego Co. HMMD**
0.181 mi. **HIST UST**
956 ft. **Site 5 of 6 in cluster D** **CERS**

Relative: Higher
Actual: 121 ft.

LUST:

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301310
Global Id:	T0607301310
Latitude:	33.2546425680301
Longitude:	-117.299795602516
Status:	Completed - Case Closed
Status Date:	04/27/2015
Case Worker:	Not reported
RB Case Number:	9UT2563
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	In August and September 1993, Kleinfelder, Inc. (Kleinfelder) observed the removal of dispenser islands and associated product piping at the site. A total of 42 soil samples (plus five duplicate samples) were collected beneath pipe connections, around filler and turbine ports, in areas of visible staining or with apparent odors, and from soil stockpiles. Total petroleum hydrocarbons as gasoline (TPHg) were detected in 36 of the 47 soil samples submitted for analysis at concentrations ranging from 10 milligrams per kilogram (mg/kg) to 10,347 mg/kg. Total petroleum hydrocarbons as diesel (TPHd) were detected in 11 of the 47 soil samples at concentrations ranging' from 17 mg/kg to 359 mg/kg. Approximately 200 tons of soil were transported for disposal. In December 1993, Kleinfelder supervised the drilling of four soil boreholes at the site. Three - boreholes were completed as vapor extraction wells (VW-1, VW-2, VW-3)

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

, and one was completed as a groundwater monitoring well (MW-1). TPHg was detected in three of the eight soil samples collected at concentrations ranging from 4.6 mg/kg to 290 mg/kg. TPHd as detected in one soil sample at a concentration of 38 mg/kg. Benzene was analyzed in four of the eight soil samples collected, and detected in two soil samples at concentrations of 0.06 mg/kg and 1.8 mg/kg. TPHg and benzene were detected in a groundwater sample collected from MW-1 at concentrations of 180,000 micrograms per liter (lJg/L) and 33,300 IJg/L, respectively. In December 1994, Kleinfelder supervised the installation of groundwater monitoring wells MW-2, MW-3, and MW-4. TPHg was detected in two of the seven soil samples collected at concentrations of 43 mg/kg and 10.9 mg/kg. TPHd was not detected in any of the seven soil samples above a laboratory reporting limit of 10 mg/kg. Benzene was detected in four of the seven soil samples at concentrations ranging from 0.100 mg/kg to 0.594 mg/kg. Liquid phase hydrocarbons (LPH) were observed in wells MW-2 and MW-3. TPHg and benzene were detected in a groundwater sample collected from MW-4 at concentrations of 58,500 1l9/L and 8,120 1l9/L, respectively. It appears that no additional work was conducted at the site by Kleinfelder and the site was transferred to SECOR International Incorporated (SECOR). On February 16 and April 19, 1996, a SECOR technician gauged four groundwater monitoring wells (MW-1 through MW-4) and removed detected LPH in MW-2 and MW-3. A total of approximately 50 gallons of liquid waste was removed from the two wells. In June 1996, SECOR supervised the installation of groundwater monitoring wells MW-5 through MW-9. TPHg was detected in two of the 20 soil samples at concentrations of 3.1 mg/kg and 430 mg/kg. Benzene was detected in three of the 20 soil samples at concentrations ranging from 0.022 mg/kg to 6.6 mg/kg. Methyl-t-butyl ether (MTBE) was detected in one soil sample at aV% concentration of 230 mg/kg. LPH was observed in wells MW-2, MW-3, and MW-9. In December 1996, SECOR supervised the installation of groundwater monitoring wells MW-10, MW-11, and MW-12. TPHg was detected in two of the 28 soil samples at concentrations of 0.7 mg/kg and 0.9 mg/kg. Benzene was not detected in any of the 28 soil samples above a laboratory reporting limit of 0.005 mg/kg. In January 1997, SECOR submitted a Work Plan for Remedial Action Implementation. The work plan proposed the installation of seven air sparge (AS) wells, six combination air sparge/vapor extraction (ASNE) wells, two groundwater extraction (GWE) wells, and two additional groundwater monitoring wells. SECOR proposed the installation of an ASNE system and a GWE system to remediate hydrocarbon-impacted soil and groundwater beneath the site. The work plan was approved by the LWaD in a letter dated February 5, 1997. In February 1997, SECOR supervised the installation of combination wells ASNE-1 through ASNE-6, AS wells AS-7 through AS-13, and GWE wells EX-1 and EX-2. TPHg was detected in four of the 10 soil samples at concentrations ranging from 0.6 mg/kg to 970 mg/kg. Benzene was detected in two of the 10 soil samples at concentrations of 2.2 mg/kg and 0.3 mg/kg. MTBE was analyzed in four of the 10 soil samples collected, and detected in one soil sample at a concentration of 0.6 mg/kg. In March 1997, a combined AS, soil vapor extraction (SVE), and GWE remediation system was designed and installed at the site. At the time of installation, the SVE system consisted of a catalytic oxidizer unit (located immediately behind the existing 7-Eleven store) manifolded to nine vapor extraction wells (VW-1, VW-2, VW-3, and VE-1 through VE-6). The AS component of the system consisted of a 10 horsepower (hp), oil-less ompressor manifolded to

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

13 wells (AS-1 through AS-13). The groundwater extraction system consisted of pneumatic submersible pumps installed in two extraction wells (EX-1 and EX-2) and one groundwater well (MW-9). Extracted groundwater was treated by particle filters and two 200-pound granular activated carbon (GAC) cylinders before being discharged to the San Luis Rey River under National Pollutant Discharge Elimination System (NPDES) General Permit 96-041 and Waste Discharge Identification (WDID) number 9000000795. In April 1997, SECOR supervised the installation of groundwater monitoring wells MW-14 and MW-15. TPHg was not detected in the three soil samples collected above a laboratory reporting limit of 0.5 mg/kg. Benzene was not detected in the three soil samples collected above a laboratory reporting limit of 0.005 mg/kg. The GWE remediation system began operation on May 1, 1997. The SVE remediation system began operation on August 11, 1997. LPH was not detected on-site following the Fourth Quarter 1997 groundwater monitoring event. The AS remediation system began operation on March 11, 1998. In August 1998, MW-5 was manifolded to the SVE and GWE remediation systems. In July 2001, the groundwater extraction system was disconnected due to NPOES permit issues, and was not restarted because SECOR was unable to obtain a sewer discharge permit from the City of Oceanside. In March 2002, SECOR requested cancellation of the NPOES permit. In March and April 2002, SECOR supervised the installation of air sparge wells AS-14 through AS-21. TPHg was detected in two of the six soil samples collected at concentrations of 310 mg/kg and 1.6 mg/kg. Benzene was detected in one of the six soil samples collected at a concentration of 0.007 mg/kg. MTBE was detected in four of the six soil samples collected at concentrations ranging from 0.005 mg/kg to 0.064 mg/kg. In May 2002, AS-14 through AS-21 were manifolded to the existing air sparge system. In June 2003, SECOR observed dispenser island and product piping upgrade activities at the subject site. Two soil samples were collected beneath the former dispenser islands. TPHg was not detected in either soil sample above a laboratory reporting limit of 0.5 mg/kg. Benzene and MTBE were not detected in either soil sample above a laboratory reporting limit of 0.005 mg/kg. In September 2003, SECOR observed the removal of three 10,000-gallon underground storage tanks (USTs) at the site. Six soil samples were collected from approximately three feet below the bottoms of the USTs under the direction of an LWQO inspector. TPHg was not detected in any of the six soil samples above a laboratory reporting limit of 0.5 mg/kg. Benzene and MTBE were not detected in any of the six soil samples above a laboratory reporting limit of 0.005 mg/kg. Two new 10,000-galion double-walled fiberglass USTs were installed following sampling activities. Approximately 123 tons of soil were transported off-site for treatment and disposal. In November 2005, the SVE system was converted to direct ventilation mode. In March 2007, a timer was installed allowing the system to operate in pulse mode (6 hours on/6 hours off). In October 2007, the existing VE system was converted to catalytic mode, and wells MW-1 through MW-4 were connected to the system. The system was taken off pulse mode for continuous operation. In May 2008, the SVE system was converted back to direct ventilation mode. In May 2009, the AS/SVE system was shut down pending a meeting with the LWQO to discuss a path toward closure. The AS/SVE system has removed and treated approximately 33,791 pounds of hydrocarbons since system startup.

LUST:
Global Id: T0607301310

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Action Type:	Other
Date:	08/31/1993
Action:	Leak Began
Global Id:	T0607301310
Action Type:	Other
Date:	09/13/1993
Action:	Leak Reported
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	07/09/2009
Action:	Letter - Notice
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	07/10/2014
Action:	Closure/No Further Action Letter
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	01/21/2015
Action:	Verbal Communication
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	11/13/2014
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	11/18/2014
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	09/03/2014
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607301310
Action Type:	Other
Date:	08/31/1993
Action:	Leak Discovery
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	07/01/2010
Action:	Monitoring Report - Quarterly
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	08/02/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301310
Action Type:	Other
Date:	08/31/1993

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Action:	Leak Stopped
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	04/27/2015
Action:	Well Destruction Report
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	02/04/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	11/04/2014
Action:	Other Report / Document
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	08/11/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	10/08/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	07/01/2013
Action:	Referral to Regional Board
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	02/21/2014
Action:	Request for Closure - Regulator Responded
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	07/31/2011
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	10/13/1993
Action:	Notice of Responsibility
Global Id:	T0607301310
Action Type:	RESPONSE
Date:	01/31/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301310
Action Type:	ENFORCEMENT
Date:	04/22/2014
Action:	Notification - Public Notice of Case Closure

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Global Id: T0607301310
Action Type: ENFORCEMENT
Date: 04/22/2014
Action: Notification - Fee Title Owners Notice

LUST:
Global Id: T0607301310
Status: Open - Case Begin Date
Status Date: 08/31/1993

Global Id: T0607301310
Status: Open - Remediation
Status Date: 12/02/1993

Global Id: T0607301310
Status: Open - Eligible for Closure
Status Date: 05/08/2014

Global Id: T0607301310
Status: Completed - Case Closed
Status Date: 04/27/2015

CPS-SLIC:
Name: 7-ELEVEN FOOD STORE #20342
Address: 487 VANDERGRIFT BL
City,State,Zip: OCEANSIDE, CA 920574335
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/13/1991
Global Id: T0608164720
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H20649-002
Latitude: 33.254603
Longitude: -117.299925
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Name: 7-ELEVEN FOOD STORE #20342
Address: 487 VANDERGRIFT BL
City,State,Zip: OCEANSIDE, CA 920574335
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/28/1986
Global Id: T0608179453
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H20649-001
Latitude: 33.254603

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Longitude:	-117.299925
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Name:	7-ELEVEN #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92057
Permit Number:	120649
Business Type:	6HK28
EPA Id Number:	CAD981406812
APN:	157-040-28-00
Last HMMD Inspection:	09/17/2012
Facility Telephone:	760-433-6182
Permit Status:	OPEN
Permit Expiration:	06/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	7-ELEVEN, INC.
Facility Mailing Address:	P O BOX 711
Facility Mailing City:	DALLAS
Facility Mailing State:	TX
Facility Mailing Zip:	75221-
UST Owner:	7-ELEVEN, INC.
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	120649
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	PREMIUM UNLEADED
Other Information:	UNDERGROUND TANK 120649 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	120649
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 120649 T004
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Permit Number: 120649
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: USED GASOLINE FILTERS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 10/03/2007
Violation Code: 6HV3411
Violation: LLD NOT INSTALLED/NOT FUNCTIONAL
Violation Citation: DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):Line leak detector is not installed, not functional, or not tested. 2636(f)(2), 25284.1(a)(4)(C), 2641(j)
Activity: ACTIVE

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 09/22/2008
Violation Code: 6HV3192
Violation: NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation: Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity: ACTIVE

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 09/22/2008
Violation Code: 6HV3263
Violation: MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation: Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity: ACTIVE

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 09/07/2011
Violation Code: 6HV3411
Violation: LLD NOT INSTALLED/NOT FUNCTIONAL
Violation Citation: DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):Line leak detector is not installed, not functional, or not tested. 2636(f)(2), 25284.1(a)(4)(C), 2641(j)
Activity: ACTIVE

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 10/16/2003
Violation Code: 6HV3501
Violation: NO MONTHLY 0.2 GPH TANK GAUGING TEST
Violation Citation: SINGLE WALLED TANKS:OPTION 1: Monthly 0.2 gallon per hour tank gauging test not performed. 2643(b)(1)
Activity: ACTIVE

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/16/2003
Violation Code:	6HV3501
Violation:	NO MONTHLY 0.2 GPH TANK GAUGING TEST
Violation Citation:	SINGLE WALLED TANKS:OPTION 1: Monthly 0.2 gallon per hour tank gauging test not performed. 2643(b)(1)
Activity:	ACTIVE

Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/16/2003
Violation Code:	6HV3101
Violation:	UPF PERMIT NOT CURRENT/ONSITE
Violation Citation:	Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005
Activity:	ACTIVE

Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/19/2004
Violation Code:	6HV3158
Violation:	ALL OPERATING CONDITIONS NOT MET
Violation Citation:	All permit operating conditions not met. 25284; 2712
Activity:	ACTIVE

UST:

UST Name:	UNDERGROUND TANK 120649 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	SINGLE WALL
Additional Id:	20342-1/NT2385
Capacity Gallons:	9528
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2003-09-08 00:00:00
Year Installed:	1979-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	14
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name:	UNDERGROUND TANK 120649 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	SINGLE WALL
Additional Id:	20342-2/NT2385
Capacity Gallons:	9528
UST Contents:	MIDGRADE UNLEADED
Other Content Info:	MIDGRADE UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2003-09-08 00:00:00
Year Installed:	1979-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Monitor Code:	14
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR
UST Name:	UNDERGROUND TANK 120649 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	SINGLE WALL
Additional Id:	20342-3/NT2385
Capacity Gallons:	9528
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2003-09-08 00:00:00
Year Installed:	1979-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	14
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR
UST Name:	UNDERGROUND TANK 120649 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	DOUBLE WALL
Additional Id:	NT2385/RT3668, RT3801,RT4914; RT5168
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2003-09-10 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	30A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ WET TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 120649 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	DOUBLE WALL
Additional Id:	NT2385/RT3668, RT3801,RT4914; RT5168
Capacity Gallons:	10000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2003-09-10 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	30A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ WET TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
Name:	7-ELEVEN #20342

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92057
Permit Number:	120649
Business Type:	6HK28
EPA Id Number:	CAD981406812
APN:	157-040-28-00
Last HMMD Inspection:	09/17/2012
Facility Telephone:	760-433-6182
Permit Status:	OPEN
Permit Expiration:	06/30/2013
Date Last Updated:	11/02/2012
Facility Owner:	7-ELEVEN, INC.
Facility Mailing Address:	P O BOX 711
Facility Mailing City:	DALLAS
Facility Mailing State:	TX
Facility Mailing Zip:	75221-
UST Owner:	7-ELEVEN, INC.
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	120649
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	PREMIUM UNLEADED
Other Information:	UNDERGROUND TANK 120649 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	120649
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 120649 T004
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	120649
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	USED GASOLINE FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/03/2007
Violation Code:	6HV3411

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Violation:	LLD NOT INSTALLED/NOT FUNCTIONAL
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):Line leak detector is not installed, not functional, or not tested. 2636(f)(2), 25284.1(a)(4)(C), 2641(j)
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	09/22/2008
Violation Code:	6HV3192
Violation:	NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation:	Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	09/22/2008
Violation Code:	6HV3263
Violation:	MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation:	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	09/07/2011
Violation Code:	6HV3411
Violation:	LLD NOT INSTALLED/NOT FUNCTIONAL
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):Line leak detector is not installed, not functional, or not tested. 2636(f)(2), 25284.1(a)(4)(C), 2641(j)
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/16/2003
Violation Code:	6HV3501
Violation:	NO MONTHLY 0.2 GPH TANK GAUGING TEST
Violation Citation:	SINGLE WALLED TANKS:OPTION 1: Monthly 0.2 gallon per hour tank gauging test not performed. 2643(b)(1)
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/16/2003
Violation Code:	6HV3501
Violation:	NO MONTHLY 0.2 GPH TANK GAUGING TEST
Violation Citation:	SINGLE WALLED TANKS:OPTION 1: Monthly 0.2 gallon per hour tank gauging test not performed. 2643(b)(1)
Activity:	ACTIVE
Permit Number:	120649
Update Date:	11/02/2012
Inspection Date:	10/16/2003
Violation Code:	6HV3101
Violation:	UPF PERMIT NOT CURRENT/ONSITE

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Violation Citation: Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005
Activity: ACTIVE

Permit Number: 120649
Update Date: 11/02/2012
Inspection Date: 10/19/2004
Violation Code: 6HV3158
Violation: ALL OPERATING CONDITIONS NOT MET
Violation Citation: All permit operating conditions not met. 25284; 2712
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 120649 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 120649
Tank Type: SINGLE WALL
Additional Id: 20342-1/NT2385
Capacity Gallons: 9528
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 2003-09-08 00:00:00
Year Installed: 1979-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 14
UST Monitor Method: SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 120649 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 120649
Tank Type: SINGLE WALL
Additional Id: 20342-2/NT2385
Capacity Gallons: 9528
UST Contents: MIDGRADE UNLEADED
Other Content Info: MIDGRADE UNLEADED
Reg Status: REMOVED
Remove Close Date: 2003-09-08 00:00:00
Year Installed: 1979-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 14
UST Monitor Method: SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR

UST Name: UNDERGROUND TANK 120649 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 120649
Tank Type: SINGLE WALL
Additional Id: 20342-3/NT2385
Capacity Gallons: 9528
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: REMOVED
Remove Close Date: 2003-09-08 00:00:00

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Year Installed:	1979-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	14
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/ RESTRICTIVE LLD + CERT ATG: IN-TANK TEST MONTHLY, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR
UST Name:	UNDERGROUND TANK 120649 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	DOUBLE WALL
Additional Id:	NT2385/RT3668, RT3801,RT4914; RT5168
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2003-09-10 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	30A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ WET TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 120649 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	120649
Tank Type:	DOUBLE WALL
Additional Id:	NT2385/RT3668, RT3801,RT4914; RT5168
Capacity Gallons:	10000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2003-09-10 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	30A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ WET TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

HIST UST:

Name:	7-ELEVEN FOOD STORE 20342
Address:	487 VANDERGRIFT
City,State,Zip:	OCEANSIDE, CA 92054
File Number:	0002F3E2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F3E2.pdf
Region:	STATE
Facility ID:	00000010235
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	FRANCHISEE/CONSIGNEE GEORGE OA
Telephone:	6195666231
Owner Name:	THE SOUTHLAND CORPORATION
Owner Address:	7839 UNIVERSITY AVENUE
Owner City,St,Zip:	LA MESA, CA 92041

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Total Tanks:	0006
Tank Num:	001
Container Num:	20342-1
Year Installed:	1979
Tank Capacity:	00009528
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	20342-2
Year Installed:	1979
Tank Capacity:	00009528
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	20342-3
Year Installed:	1979
Tank Capacity:	00009528
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	21800-1
Year Installed:	1982
Tank Capacity:	00009728
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	21800-2
Year Installed:	1982
Tank Capacity:	00009728
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	21800-3
Year Installed:	1982
Tank Capacity:	00009728
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	0.25
Leak Detection:	Stock Inventor

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Click here for Geo Tracker PDF:

CERS:

Name:	7-ELEVEN INC #20342
Address:	487 VANDERGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Site ID:	448747
CERS ID:	110057091971
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	DISPATCH 1
Entity Title:	EMERGENCY SERVICES
Affiliation Address:	8400 PARDEE DRIVE
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jamil Hershewe
Entity Title:	Not reported
Affiliation Address:	POBOX 711NA ATTN ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST PO Name
Entity Name:	7 11 ; EMPLOYEES TRST
Entity Title:	Not reported
Affiliation Address:	POBOX 711NA ATTN ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	SUDAGAR AND MELANA SINGH
Entity Title:	FRANCHISEE
Affiliation Address:	POBOX 711 ATTN ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Owner
Entity Name:	7 11
Entity Title:	OWNER
Affiliation Address:	POBOX 711 ATTN ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX

7-ELEVEN FOOD STORE 20342 (Continued) **1000281950**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	SUDAGAR AND MELANA SINGH
Entity Title:	OPERATOR
Affiliation Address:	POBOX 711 ATTN ENVIRONMENTAL DEPARTMENT
Affiliation City:	DALLAS
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	7 11 ; EMPLOYEES TRST
Entity Title:	Not reported
Affiliation Address:	515 S FLOWER ST STE 2700
Affiliation City:	LOSANGELES
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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18 **SARA MORRIS** **RCRA NonGen / NLR** **1025844914**
NE **4945 STEPHANIE PL** **CAC003024533**
1/8-1/4 **OCEANSIDE, CA 92057**
0.203 mi.
1073 ft.

Relative: **Higher**

Actual: **146 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-07-17 00:00:00.0
Handler Name:	SARA MORRIS	
Handler Address:		4945 STEPHANIE PL
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC003024533
Contact Name:		SARA MORRIS
Contact Address:		4945 STEPHANIE PL
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		949-842-6881
Contact Fax:		Not reported
Contact Email:		KERRIEP@CVECORP.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4945 STEPHANIE PL
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		SARA MORRIS
Owner Type:		Other
Operator Name:		SARA MORRIS

SARA MORRIS (Continued) **1025844914**

Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-07-29 17:13:06.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

SARA MORRIS (Continued) **1025844914**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SARA MORRIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4945 STEPHANIE PL
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	949-842-6881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SARA MORRIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4945 STEPHANIE PL
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	949-842-6881
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-07-17 00:00:00.0
Handler Name: SARA MORRIS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D19 **7-ELEVEN FOOD STORE #20342** **SAN DIEGO CO. SAM** **S106061736**
ESE **487 VANDERGRIFT BLVD** **SWEEPS UST** **N/A**
1/8-1/4 **OCEANSIDE, CA 92057** **Cortese**
0.209 mi. **SAN DIEGO CO LOP**
1103 ft. **Site 6 of 6 in cluster D** **CERS**

Relative:
Higher

Actual:
116 ft.

SAN DIEGO CO. SAM:

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Case Number:	H20649-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	10/28/1986
Date Began:	8/14/1986

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Case Number:	H20649-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	5/13/1991
Date Began:	5/3/1991

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Case Number:	H20649-003
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Remedial Action (Clean-Up)
Date:	3/1/1997
Date Began:	8/31/1993

SWEEPS UST:

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BLVD
City:	OCEANSIDE
Status:	Active
Comp Number:	20649
Number:	9
Board Of Equalization:	44-002251
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-020649-000001
Tank Status:	A
Capacity:	9528
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED

7-ELEVEN FOOD STORE #20342 (Continued) **S106061736**

Number Of Tanks: 3

Name: 7-ELEVEN FOOD STORE #20342
Address: 487 VANDERGRIFT BLVD
City: OCEANSIDE
Status: Active
Comp Number: 20649
Number: 9
Board Of Equalization: 44-002251
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-020649-000002
Tank Status: A
Capacity: 9528
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: 7-ELEVEN FOOD STORE #20342
Address: 487 VANDERGRIFT BLVD
City: OCEANSIDE
Status: Active
Comp Number: 20649
Number: 9
Board Of Equalization: 44-002251
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-020649-000003
Tank Status: A
Capacity: 9528
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CORTESE:
Name: 7-ELEVEN FOOD STORE #20342
Address: 487 VANDERGRIFT BL
City,State,Zip: OCEANSIDE, CA 920574335
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607301310
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported

7-ELEVEN FOOD STORE #20342 (Continued) **S106061736**

Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

SAN DIEGO CO LOP:

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Record ID:	DEH1993-LSAM-H20649-003
Record Status:	Completed
Opened Date:	09/13/1993
Parcel Number:	157-040-28-00
Case Type:	LOP - Local Oversight Program
Historical Name:	7-ELEVEN 20342
SWRCB Global ID:	T0607301310
Funding:	S - LOP State Fund
Lead Agency:	RWQCB
Lead Agency Date:	07/01/2013
Census Tract:	186.10
Community:	Oceanside
Jurisdiction:	OCEANSIDE
Watershed Basin Number:	903.11
Water Purveyor:	CWA CITY OF OCEANSIDE
Fire Agency:	OCEANSIDE
Latitude:	33.2546033
Longitude:	-117.2999249
X MapCoord:	6240586.41402996
Y MapCoord:	2037896.2999339

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Record ID:	DEH1986-LSAM-H20649-001
Record Status:	Completed
Opened Date:	08/14/1986
Parcel Number:	157-040-28-00
Case Type:	FIT - Failed Integrity Test
Historical Name:	7-ELEVEN FOOD STORE #20342
SWRCB Global ID:	T0608179453
Funding:	N - Non-Billable
Lead Agency:	DEH/SAM
Lead Agency Date:	08/14/1986
Census Tract:	186.10
Community:	Oceanside
Jurisdiction:	OCEANSIDE
Watershed Basin Number:	903.11
Water Purveyor:	OCEANSIDE
Fire Agency:	OCEANSIDE
Latitude:	33.2546033
Longitude:	-117.2999249

7-ELEVEN FOOD STORE #20342 (Continued) **S106061736**

X MapCoord:	6240707.109
Y MapCoord:	2037894.583
Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92057
Record ID:	DEH1991-LSAM-H20649-002
Record Status:	Completed
Opened Date:	05/09/1991
Parcel Number:	157-040-28-00
Case Type:	FIT - Failed Integrity Test
Historical Name:	SOUTHLAND CORPORATION
SWRCB Global ID:	T0608164720
Funding:	N - Non-Billable
Lead Agency:	DEH/SAM
Lead Agency Date:	05/09/1991
Census Tract:	186.10
Community:	Oceanside
Jurisdiction:	OCEANSIDE
Watershed Basin Number:	903.11
Water Purveyor:	OCEANSIDE
Fire Agency:	OCEANSIDE
Latitude:	33.2546033
Longitude:	-117.2999249
X MapCoord:	6240707.109
Y MapCoord:	2037894.583

CERS:

Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Site ID:	208189
CERS ID:	T0608179453
CERS Description:	Cleanup Program Site
Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Site ID:	208189
CERS ID:	T0607301310
CERS Description:	Leaking Underground Storage Tank Cleanup Site
Name:	7-ELEVEN FOOD STORE #20342
Address:	487 VANDERGRIFT BL
City,State,Zip:	OCEANSIDE, CA 920574335
Site ID:	208189
CERS ID:	T0608164720
CERS Description:	Cleanup Program Site

C20 **BEYOND PROPERTY MANAGEMENT** **RCRA NonGen / NLR** **1024762838**
NNE **670 ROJA DRIVE** **CAC002982700**
1/8-1/4 **OCEANSIDE, CA 92057**
0.211 mi.
1113 ft. **Site 2 of 2 in cluster C**

Relative: **Higher**

Actual: **113 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-10-01 00:00:00.0
Handler Name:	BEYOND PROPERTY MANAGEMENT
Handler Address:	670 ROJA DRIVE
Handler City,State,Zip:	OCEANSIDE, CA 92057
EPA ID:	CAC002982700
Contact Name:	BEYOND PROPERTY MANAGEMENT
Contact Address:	670 ROJA DRIVE
Contact City,State,Zip:	OCEANSIDE, CA 92057
Contact Telephone:	858-222-4663
Contact Fax:	Not reported
Contact Email:	INFO@JJANDSCONSTRUCTION.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	670 ROJA DRIVE
Mailing City,State,Zip:	OCEANSIDE, CA 92057
Owner Name:	BEYOND PROPERTY MANAGEMENT
Owner Type:	Other
Operator Name:	BEYOND PROPERTY MANAGEMENT
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

BEYOND PROPERTY MANAGEMENT (Continued) **1024762838**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-10-01 18:39:04.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BEYOND PROPERTY MANAGEMENT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	670 ROJA DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	858-222-4663
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BEYOND PROPERTY MANAGEMENT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	670 ROJA DRIVE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	858-222-4663
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BEYOND PROPERTY MANAGEMENT (Continued) **1024762838**

Historic Generators:
- Receive Date: 2018-10-01 00:00:00.0
- Handler Name: BEYOND PROPERTY MANAGEMENT
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

21
ESE
1/8-1/4
0.223 mi.
1180 ft.

NORTH RIVER VILLAGE
490 VANDEGRIFT BL
OCEANSIDE, CA 92054

LUST **S108997067**
SAN DIEGO CO. SAM Cortese **N/A**
SAN DIEGO CO LOP
CERS

Relative: Higher

Actual: 109 ft.

LUST:
- Name: NORTH RIVER VILLAGE
- Address: 490 VANDEGRIFT BL
- City,State,Zip: OCEANSIDE, CA 92054
- Lead Agency: SAN DIEGO COUNTY LOP
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0619764331
- Global Id: T0619764331
- Latitude: 33.2537976600781
- Longitude: -117.298707962036
- Status: Completed - Case Closed
- Status Date: 10/30/2009
- Case Worker: TS
- RB Case Number: Not reported
- Local Agency: SAN DIEGO COUNTY LOP
- File Location: Local Agency
- Local Case Number: 208993-001
- Potential Media Affect: Aquifer used for drinking water supply, Soil
- Potential Contaminants of Concern: Gasoline
- Site History: A previously unknown 300-gallon UST was struck during development (gradig) of the site, resulting in a fuel release. Soil samples were collected during the tank removal (February 4, 2008) at a depth of 8 feet (at the bottom of the tank excavation). One sample contained 22,000 milligrams per kilogram (mg/kg) TPH- gasoline and 3,900 mg/kg TPH as diesel. In March 26, 2008, 8 GeoProbe borings and 2 hand-auger

NORTH RIVER VILLAGE (Continued) **S108997067**

borings were advanced to depths of 2-9 ft. and soil samples were collected/analyzed. On June 18, 2008, a total of 55 cubic yards of soil was removed from the tank area to a depth of 11 to 14 feet (until confirmation samples indicated no petroleum hydrocarbons). Soil was transported offsite for disposal at a licensed facility and was not reused. One groundwater monitoring well was installed on January 16, 2009. Two sampling events indicated no fuel or MTBE contamination. Please see the Environmental Data tab for additional site specific information.

LUST:
Global Id: T0619764331
Contact Type: Local Agency Caseworker
Contact Name: TERESA SHERMAN
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: teresa.sherman@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0619764331
Action Type: Other
Date: 02/07/2008
Action: Leak Reported

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 04/14/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 02/22/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 03/10/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0619764331
Action Type: Other
Date: 02/04/2008
Action: Leak Discovery

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 06/12/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0619764331

NORTH RIVER VILLAGE (Continued) **S108997067**

Action Type: ENFORCEMENT
Date: 04/21/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0619764331
Action Type: REMEDIATION
Date: 06/18/2008
Action: Excavation

Global Id: T0619764331
Action Type: Other
Date: 02/04/2008
Action: Leak Stopped

Global Id: T0619764331
Action Type: RESPONSE
Date: 06/08/2009
Action: Site Assessment Report

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 10/29/2009
Action: Closure/No Further Action Letter

Global Id: T0619764331
Action Type: Other
Date: 02/04/2008
Action: Leak Began

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 02/13/2008
Action: Notice of Responsibility

Global Id: T0619764331
Action Type: ENFORCEMENT
Date: 05/13/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0619764331
Status: Open - Case Begin Date
Status Date: 02/04/2008

Global Id: T0619764331
Status: Open - Site Assessment
Status Date: 02/04/2008

Global Id: T0619764331
Status: Open - Site Assessment
Status Date: 09/16/2009

Global Id: T0619764331
Status: Completed - Case Closed
Status Date: 10/30/2009

NORTH RIVER VILLAGE (Continued) **S108997067**

SAN DIEGO CO. SAM:

Name:	NORTH RIVER VILLAGE
Address:	490 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Case Number:	208993-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	10/30/2009
Date Began:	2/4/2008

CORTESE:

Name:	NORTH RIVER VILLAGE
Address:	490 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0619764331
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

SAN DIEGO CO LOP:

Name:	NORTH RIVER VILLAGE
Address:	490 VANDEGRIFT BLVD
City,State,Zip:	OCEANSIDE, CA 92054
Record ID:	DEH2008-LSAM-208993-001
Record Status:	Completed
Opened Date:	02/07/2008
Parcel Number:	157-040-42-00
Case Type:	LOP - Local Oversight Program
Historical Name:	NORTH RIVER VILLAGE
SWRCB Global ID:	T0619764331
Funding:	S - LOP State Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	02/07/2008
Census Tract:	Not reported
Community:	Not reported
Jurisdiction:	Not reported
Watershed Basin Number:	Not reported

NORTH RIVER VILLAGE (Continued) **S108997067**

Water Purveyor:	Not reported
Fire Agency:	Not reported
Latitude:	Not reported
Longitude:	Not reported
X MapCoord:	Not reported
Y MapCoord:	Not reported

CERS:

Name:	NORTH RIVER VILLAGE
Address:	490 VANDEGRIFT BL
City,State,Zip:	OCEANSIDE, CA 92054
Site ID:	245911
CERS ID:	T0619764331
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TERESA SHERMAN - SAN DIEGO COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	P.O. Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

22
East
1/8-1/4
0.241 mi.
1272 ft.

HENRY RUIZ
556 ARTHUR AVENUE
OCEANSIDE, CA 92057

RCRA NonGen / NLR **1026476173**
CAC003081963

Relative:
Higher

Actual:
143 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-09-01 00:00:00.0
Handler Name:	HENRY RUIZ	
Handler Address:		556 ARTHUR AVENUE
Handler City,State,Zip:		OCEANSIDE, CA 92057
EPA ID:		CAC003081963
Contact Name:		HENRY RUIZ
Contact Address:		556 ARTHUR AVENUE
Contact City,State,Zip:		OCEANSIDE, CA 92057
Contact Telephone:		714-453-7757
Contact Fax:		Not reported
Contact Email:		LUCIANNAVILLAREAL@ALLIANCE-ENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		556 ARTHUR AVENUE
Mailing City,State,Zip:		OCEANSIDE, CA 92057
Owner Name:		HENRY RUIZ

HENRY RUIZ (Continued) **1026476173**

Owner Type:	Other
Operator Name:	HENRY RUIZ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-09-04 15:31:31.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

HENRY RUIZ (Continued) **1026476173**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HENRY RUIZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	556 ARTHUR AVENUE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	714-453-7757
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HENRY RUIZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	556 ARTHUR AVENUE
Owner/Operator City,State,Zip:	OCEANSIDE, CA 92057
Owner/Operator Telephone:	714-453-7757
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-09-01 00:00:00.0
Handler Name: HENRY RUIZ	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

23
WNW
1/4-1/2
0.344 mi.
1814 ft.

MONARCH POINTE
NONE N DOUGLAS DR
OCEANSIDE, CA 92054

CPS-SLIC
CERS

S106916445
N/A

Relative:
Lower

Actual:
55 ft.

CPS-SLIC:

Name:	MONARCH POINTE
Address:	NONE N DOUGLAS DR
City,State,Zip:	OCEANSIDE, CA 92054
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	05/26/1999
Global Id:	T0608108616
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H38273-001
Latitude:	33.2586697
Longitude:	-117.3108253
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	MONARCH POINTE
Address:	NONE N DOUGLAS DR
City,State,Zip:	OCEANSIDE, CA 92054
Site ID:	189239
CERS ID:	T0608108616
CERS Description:	Cleanup Program Site

24
NNE
1/4-1/2
0.484 mi.
2553 ft.

MORROW HILLS ELEMENTARY
EL MIRLO DRIVE
OCEANSIDE, CA 92057

ENVIROSTOR
SCH

S107736778
N/A

Relative:
Higher

Actual:
131 ft.

ENVIROSTOR:

Name:	MORROW HILLS ELEMENTARY
Address:	EL MIRLO DRIVE
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37010007
Status:	No Further Action
Status Date:	05/04/2000
Site Code:	404056
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	12.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa

MORROW HILLS ELEMENTARY (Continued) **S107736778**

Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 76
Senate: 36
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.26388
Longitude: -117.3002
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: * Pesticides - Wastes From Production DDE Zinc Antimony and compounds Nickel Vanadium and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: BONSALL UNION SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: BONSALL UNION SD-PROP. MORROW HILLS/VCA
Alias Type: Alternate Name
Alias Name: MORROW HILLS ELEMENTARY SCH. (PROPOSED)
Alias Type: Alternate Name
Alias Name: MORROW HILLS ELEMENTARY SCHOOL (PROP)
Alias Type: Alternate Name
Alias Name: MORROW HILLS ELEMENTARY SCHOOL SITE
Alias Type: Alternate Name
Alias Name: 404056
Alias Type: Project Code (Site Code)
Alias Name: 37010007
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/04/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/09/2000
Comments: PEA Draft Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

MORROW HILLS ELEMENTARY (Continued) **S107736778**

Completed Date:	01/31/1992
Comments:	Phase 1
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	MORROW HILLS ELEMENTARY
Address:	EL MIRLO DRIVE
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37010007
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	12.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404056
Assembly:	76
Senate:	36
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	05/04/2000
Restricted Use:	NO
Funding:	School District
Latitude:	33.26388
Longitude:	-117.3002
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	* Pesticides - Wastes From Production, DDE, Zinc, Antimony and compounds, Nickel, Vanadium and compounds
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	BONSALL UNION SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	BONSALL UNION SD-PROP. MORROW HILLS/VCA
Alias Type:	Alternate Name
Alias Name:	MORROW HILLS ELEMENTARY SCH. (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	MORROW HILLS ELEMENTARY SCHOOL (PROP)
Alias Type:	Alternate Name
Alias Name:	MORROW HILLS ELEMENTARY SCHOOL SITE
Alias Type:	Alternate Name
Alias Name:	404056

MORROW HILLS ELEMENTARY (Continued) **S107736778**

Alias Type: Project Code (Site Code)
Alias Name: 37010007
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/04/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/09/2000
Comments: PEA Draft Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/31/1992
Comments: Phase 1

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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25 ENE 1/2-1 0.516 mi. 2725 ft.

DEL RIO ELEMENTARY
5207 EAST PARKER STREET
OCEANSIDE, CA 92054

ENVIROSTOR SCH CERS **S118756875 N/A**

Relative: Higher

Actual: 89 ft.

ENVIROSTOR:
Name: DEL RIO ELEMENTARY
Address: 5207 EAST PARKER STREET
City,State,Zip: OCEANSIDE, CA 92054
Facility ID: 37820016
Status: No Action Required
Status Date: 04/11/2003

DEL RIO ELEMENTARY (Continued) **S118756875**

Site Code:	404393
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	14.1
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	76
Senate:	36
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.25813
Longitude:	-117.2931
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Chlordane DDD DDE DDT Lead
Confirmed COC:	30004-NO 30006-NO 30007-NO 30008-NO 30013-NO 31000-NO
Potential Description:	SOIL
Alias Name:	DEL RIO ELEMENTARY
Alias Type:	Alternate Name
Alias Name:	OCEANSIDE USD-DEL RIO ELEM ADDITION
Alias Type:	Alternate Name
Alias Name:	404393
Alias Type:	Project Code (Site Code)
Alias Name:	37820016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/28/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	10/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	04/11/2003
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

DEL RIO ELEMENTARY (Continued) **S118756875**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: DEL RIO ELEMENTARY
Address: 5207 EAST PARKER STREET
City,State,Zip: OCEANSIDE, CA 92054
Facility ID: 37820016
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 14.1
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404393
Assembly: 76
Senate: 36
Special Program Status: Not reported
Status: No Action Required
Status Date: 04/11/2003
Restricted Use: NO
Funding: School District
Latitude: 33.25813
Longitude: -117.2931
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: Chlordane, Chlordane, DDD, DDE, DDT, Lead
Confirmed COC: 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, 31000-NO
Potential Description: SOIL
Alias Name: DEL RIO ELEMENTARY
Alias Type: Alternate Name
Alias Name: OCEANSIDE USD-DEL RIO ELEM ADDITION
Alias Type: Alternate Name
Alias Name: 404393
Alias Type: Project Code (Site Code)
Alias Name: 37820016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/29/2002
Comments: Not reported

DEL RIO ELEMENTARY (Continued) **S118756875**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	04/11/2003
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CERS:

Name:	DEL RIO ELEMENTARY
Address:	5207 EAST PARKER STREET
City,State,Zip:	OCEANSIDE, CA 92054
Site ID:	371005
CERS ID:	37820016
CERS Description:	School Investigation

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	SHAHIR HADDAD
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

26
South
1/2-1
0.597 mi.
3152 ft.

MURRAY BRIDGE MIDDLE SCHOOL **ENVIROSTOR** **S105628887**
FRAZEE ROAD/GARDENIA STREET **SCH** **N/A**
OCEANSIDE, CA 92057

Relative:
Lower

Actual:
74 ft.

ENVIROSTOR:

Name:	MURRAY BRIDGE MIDDLE SCHOOL
Address:	FRAZEE ROAD/GARDENIA STREET
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37010029
Status:	No Further Action
Status Date:	07/24/2002
Site Code:	404341
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	30
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad

MURRAY BRIDGE MIDDLE SCHOOL (Continued) **S105628887**

Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 76
Senate: 36
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.24598
Longitude: -117.3024
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic DDD DDE DDT
Confirmed COC: 30001-NO 30006-NO 30007-NO 30008-NO
Potential Description: SOIL
Alias Name: MURRAY BRIDGE MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: OCEANSIDE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: OCEANSIDE USD-MURRAY BRIDGE MIDDLE SCL
Alias Type: Alternate Name
Alias Name: 404341
Alias Type: Project Code (Site Code)
Alias Name: 37010029
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/24/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/09/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/24/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/21/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

MURRAY BRIDGE MIDDLE SCHOOL (Continued) **S105628887**

Schedule Revised Date: Not reported

SCH:

Name:	MURRAY BRIDGE MIDDLE SCHOOL
Address:	FRAZEE ROAD/GARDENIA STREET
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37010029
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	30
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404341
Assembly:	76
Senate:	36
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/24/2002
Restricted Use:	NO
Funding:	School District
Latitude:	33.24598
Longitude:	-117.3024
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, DDD, DDE, DDT
Confirmed COC:	30001-NO, 30006-NO, 30007-NO, 30008-NO
Potential Description:	SOIL
Alias Name:	MURRAY BRIDGE MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	OCEANSIDE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	OCEANSIDE USD-MURRAY BRIDGE MIDDLE SCL
Alias Type:	Alternate Name
Alias Name:	404341
Alias Type:	Project Code (Site Code)
Alias Name:	37010029
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	07/24/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/09/2003
Comments:	Not reported

MURRAY BRIDGE MIDDLE SCHOOL (Continued) **S105628887**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/24/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/21/2002
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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27 **NORTHEAST VALLEY HIGH SCHOOL SITE** **ENVIROSTOR** **S105628881**
ENE **255 STALLION DRIVE** **SCH** **N/A**
1/2-1 **OCEANSIDE, CA 92057** **CERS**
0.844 mi.
4457 ft.

Relative:
Higher

Actual:
144 ft.

ENVIROSTOR:

Name:	NORTHEAST VALLEY HIGH SCHOOL SITE
Address:	255 STALLION DRIVE
City,State,Zip:	OCEANSIDE, CA 92057
Facility ID:	37010023
Status:	Inactive - Needs Evaluation
Status Date:	04/18/2007
Site Code:	404287
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	75
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Rafat Abbasi
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	76
Senate:	36
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.25921
Longitude:	-117.2888
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Toxaphene TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV

NORTHEAST VALLEY HIGH SCHOOL SITE (Continued) **S105628881**

Alias Name: NORTHEAST VALLEY HIGH SCHOOL SITE
Alias Type: Alternate Name
Alias Name: OCEANSIDE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: OCEANSIDE USD-PROPOSED NORTHEAST VLY SCL
Alias Type: Alternate Name
Alias Name: 404287
Alias Type: Project Code (Site Code)
Alias Name: 37010023
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/28/2007
Comments: CRU Memo completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/10/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/02/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: NORTHEAST VALLEY HIGH SCHOOL SITE
Address: 255 STALLION DRIVE
City,State,Zip: OCEANSIDE, CA 92057
Facility ID: 37010023
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 75
National Priorities List: NO

NORTHEAST VALLEY HIGH SCHOOL SITE (Continued) **S105628881**

Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Rafat Abbasi
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404287
Assembly:	76
Senate:	36
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	04/18/2007
Restricted Use:	NO
Funding:	School District
Latitude:	33.25921
Longitude:	-117.2888
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Toxaphene, Toxaphene, TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	NORTHEAST VALLEY HIGH SCHOOL SITE
Alias Type:	Alternate Name
Alias Name:	OCEANSIDE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	OCEANSIDE USD-PROPOSED NORTHEAST VLY SCL
Alias Type:	Alternate Name
Alias Name:	404287
Alias Type:	Project Code (Site Code)
Alias Name:	37010023
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/18/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/28/2007
Comments:	CRU Memo completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	04/10/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/02/2001
Comments:	Not reported
Future Area Name:	Not reported

NORTHEAST VALLEY HIGH SCHOOL SITE (Continued) **S105628881**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS:
Name: NORTHEAST VALLEY HIG
Address: 255 STALLION DRIVE
City,State,Zip: OCEANSIDE, CA 92057
Site ID: 340723
CERS ID: 37010023
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: * Rafat Abbasi
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 61

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/20/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/30/2021
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/13/2021
Number of Days to Update: 88

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/14/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/26/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/05/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74
Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 85
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/12/2021
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/22/2021
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 08/05/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/09/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 6

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/08/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/09/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2021
Next Scheduled EDR Contact: 11/28/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/14/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

4991 MACARIO DR
4991 MACARIO DR
OCEANSIDE, CA 92057

TARGET PROPERTY COORDINATES

Latitude (North):	33.255975 - 33° 15' 21.51''
Longitude (West):	117.304033 - 117° 18' 14.52''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	471680.1
UTM Y (Meters):	3679514.2
Elevation:	89 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640252 MORRO HILL, CA
Version Date:	2012
South Map:	5641318 SAN LUIS REY, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

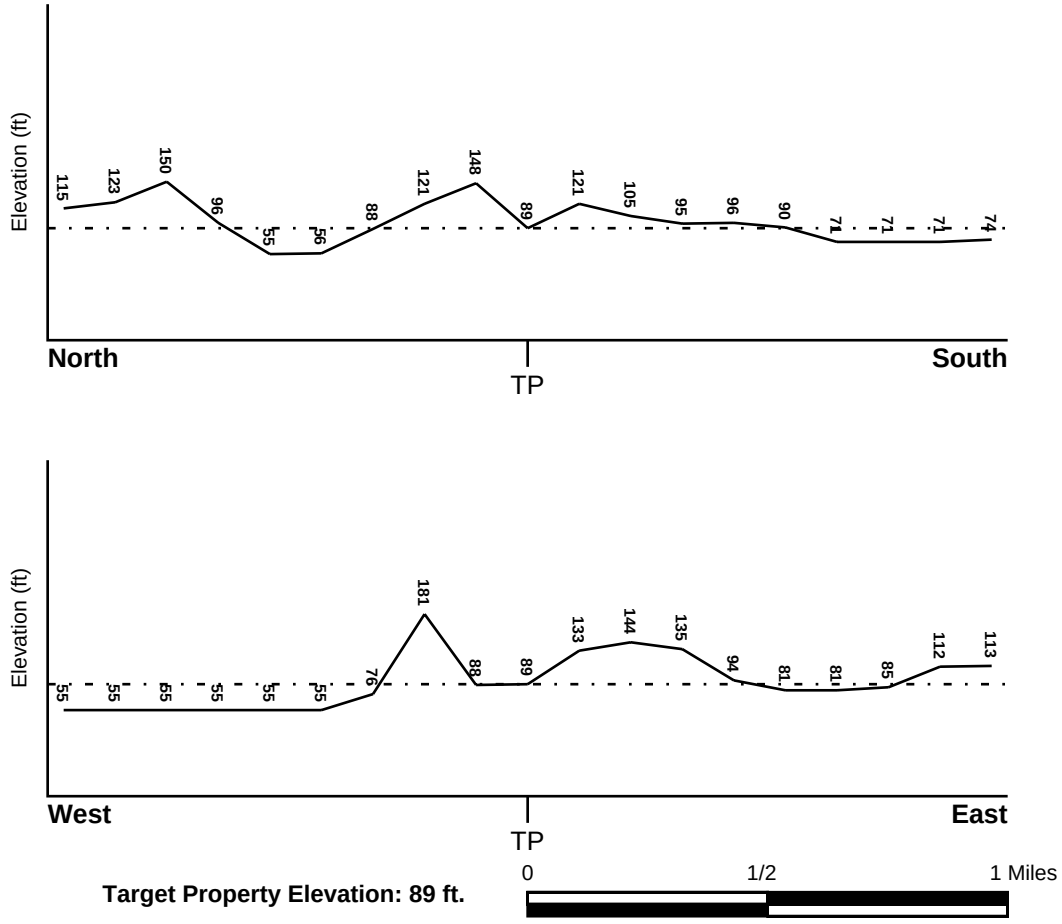
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 89 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06073C0468H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06073C0464G	FEMA FIRM Flood data
06073C0752H	FEMA FIRM Flood data
06073C0756H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MORRO HILL	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

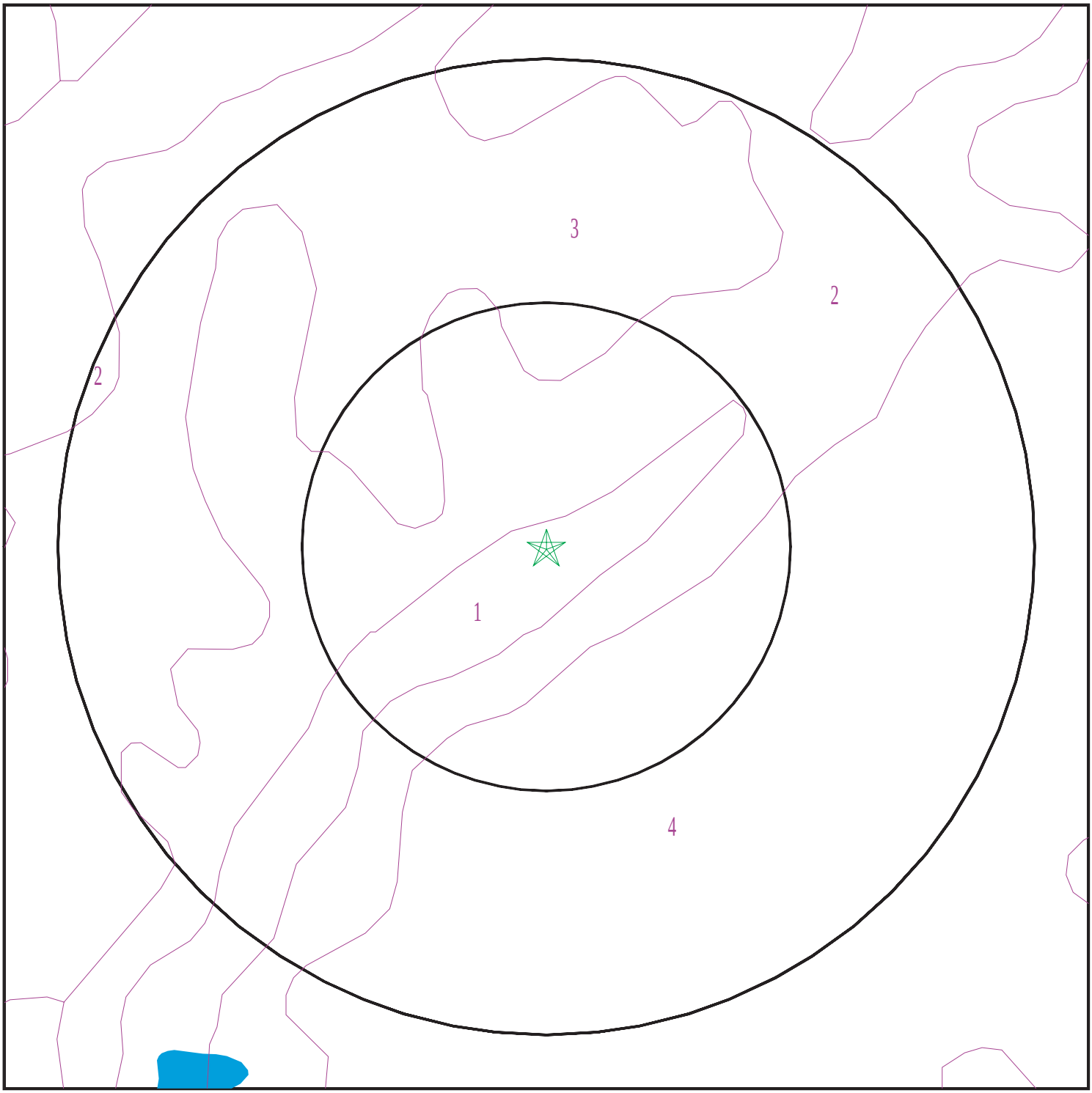
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 06693842.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	4991 Macario Dr	CLIENT:	Hillmann Environmental Co.
ADDRESS:	4991 Macario Dr Oceanside CA 92057	CONTACT:	Gabby Cyrulik
LAT/LONG:	33.255975 / 117.304033	INQUIRY #:	06693842.2r
		DATE:	October 07, 2021 8:45 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: LAS FLORES

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	14 inches	22 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	22 inches	38 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
4	38 inches	48 inches	loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
5	48 inches	51 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: LAS FLORES

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	20 inches	29 inches	clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	29 inches	40 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
4	40 inches	48 inches	loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	48 inches	51 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 4

Soil Component Name: LAS FLORES

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	14 inches	22 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	22 inches	38 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
4	38 inches	48 inches	loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
5	48 inches	51 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C16	USGS40000131357	1/4 - 1/2 Mile SSE
C17	USGS40000131369	1/4 - 1/2 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B18	USGS40000131422	1/4 - 1/2 Mile ESE
D21	USGS40000131396	1/4 - 1/2 Mile ESE
D22	USGS40000131397	1/4 - 1/2 Mile ESE
E23	USGS40000131323	1/4 - 1/2 Mile South
F26	USGS40000131313	1/2 - 1 Mile SSE
F27	USGS40000131314	1/2 - 1 Mile SSE
H34	USGS40000131573	1/2 - 1 Mile NW
E35	USGS40000131294	1/2 - 1 Mile South
I39	USGS40000131604	1/2 - 1 Mile NNE
I40	USGS40000131605	1/2 - 1 Mile NNE
G42	USGS40000131420	1/2 - 1 Mile ESE
G43	USGS40000131421	1/2 - 1 Mile ESE
J44	USGS40000131481	1/2 - 1 Mile West
L46	USGS40000131619	1/2 - 1 Mile North
M51	USGS40000131275	1/2 - 1 Mile SSE
K53	USGS40000131287	1/2 - 1 Mile SSE
M58	USGS40000131257	1/2 - 1 Mile South
O60	USGS40000131563	1/2 - 1 Mile WNW
P61	USGS40000131233	1/2 - 1 Mile South
P64	USGS40000131234	1/2 - 1 Mile South
68	USGS40000131523	1/2 - 1 Mile ENE
Q74	USGS40000131232	1/2 - 1 Mile SSE
Q78	USGS40000131230	1/2 - 1 Mile SSE
Q79	USGS40000131231	1/2 - 1 Mile SSE
S81	USGS40000131635	1/2 - 1 Mile North
U83	USGS40000131217	1/2 - 1 Mile South
P86	USGS40000131209	1/2 - 1 Mile South
V87	USGS40000131264	1/2 - 1 Mile SSW
90	USGS40000131611	1/2 - 1 Mile NW
T92	USGS40000131507	1/2 - 1 Mile East
W93	USGS40000131218	1/2 - 1 Mile SSW
X97	USGS40000131229	1/2 - 1 Mile SSE
T98	USGS40000131487	1/2 - 1 Mile East
V99	USGS40000131258	1/2 - 1 Mile SSW
X101	USGS40000131216	1/2 - 1 Mile SSE
R102	USGS40000131468	1/2 - 1 Mile East
R103	USGS40000131469	1/2 - 1 Mile East
AA109	USGS40000131219	1/2 - 1 Mile SSW
AB112	USGS40000131650	1/2 - 1 Mile NNW
113	USGS40000131281	1/2 - 1 Mile SW
AC116	USGS40000131256	1/2 - 1 Mile SE
AA118	USGS40000131195	1/2 - 1 Mile SSW
Y119	USGS40000131443	1/2 - 1 Mile East
Z120	USGS40000131235	1/2 - 1 Mile SW
AE122	USGS40000131398	1/2 - 1 Mile WSW
AE123	USGS40000131399	1/2 - 1 Mile WSW
AD125	USGS40000131442	1/2 - 1 Mile East
AG126	USGS40000131220	1/2 - 1 Mile SW
AF127	USGS40000131196	1/2 - 1 Mile SSW
AG129	USGS40000131236	1/2 - 1 Mile SW
AC132	USGS40000131208	1/2 - 1 Mile SE
AI134	USGS40000131671	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AJ139	USGS40000131159	1/2 - 1 Mile SSW
AG140	USGS40000131201	1/2 - 1 Mile SW
AK148	USGS40000131202	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAEDF0000030842	1/8 - 1/4 Mile ESE
A2	CAEDF0000101066	1/4 - 1/2 Mile ESE
A3	CAEDF0000046256	1/4 - 1/2 Mile ESE
A4	CAEDF0000143537	1/4 - 1/2 Mile ESE
A5	CAEDF0000060201	1/4 - 1/2 Mile ESE
A6	CAEDF0000063633	1/4 - 1/2 Mile ESE
A7	CAEDF0000064259	1/4 - 1/2 Mile ESE
A8	CAEDF0000033284	1/4 - 1/2 Mile ESE
A9	CAEDF0000040973	1/4 - 1/2 Mile ESE
A10	CAEDF0000056307	1/4 - 1/2 Mile ESE
A11	CAEDF0000007073	1/4 - 1/2 Mile ESE
A12	CAEDF0000122953	1/4 - 1/2 Mile ESE
A13	CAEDF0000136362	1/4 - 1/2 Mile ESE
A14	CAEDF0000088720	1/4 - 1/2 Mile ESE
B15	CAEDF0000052254	1/4 - 1/2 Mile ESE
D19	CADWR9000001507	1/4 - 1/2 Mile SE
20	CADWR9000001476	1/4 - 1/2 Mile SE
E24	CAUSGSN00002393	1/4 - 1/2 Mile South
D25	CAUSGSN00016891	1/4 - 1/2 Mile ESE
G28	CADWR9000001527	1/2 - 1 Mile ESE
G29	CADWR9000001528	1/2 - 1 Mile ESE
H30	CAUSGSN00004207	1/2 - 1 Mile NW
31	CADWR0000016038	1/2 - 1 Mile WNW
I32	CADWR9000001649	1/2 - 1 Mile NNE
I33	CADWR9000001650	1/2 - 1 Mile NNE
E36	CAUSGSN00008152	1/2 - 1 Mile South
37	CADWR0000022219	1/2 - 1 Mile South
I38	CAUSGSN00000292	1/2 - 1 Mile NNE
I41	CADWR0000010320	1/2 - 1 Mile NNE
K45	CADWR0000016335	1/2 - 1 Mile SSE
L47	CADWR9000001660	1/2 - 1 Mile North
M48	CADDW0000012289	1/2 - 1 Mile South
J49	CADWR9000001564	1/2 - 1 Mile West
K50	CADWR9000001427	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

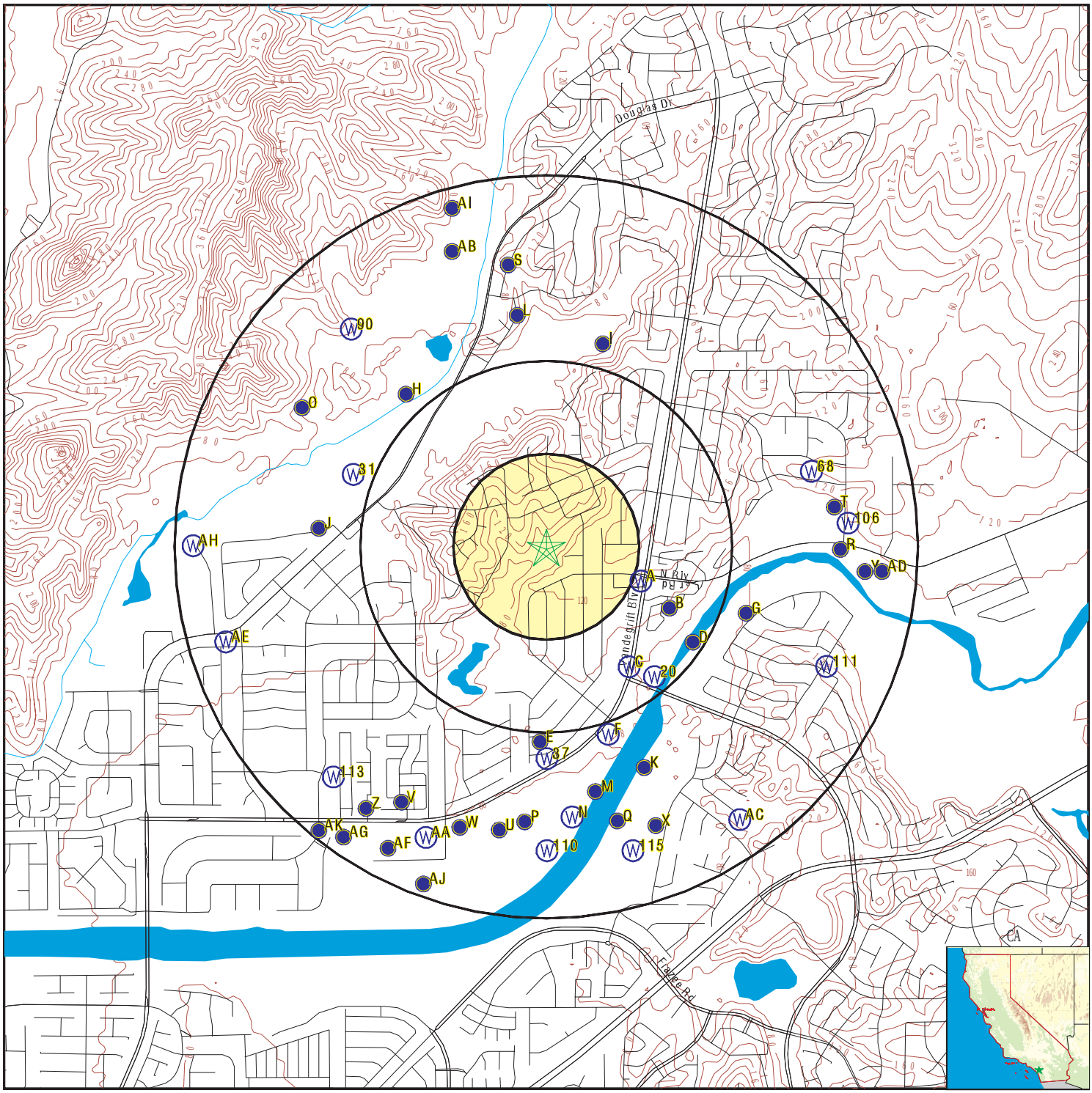
MAP ID	WELL ID	LOCATION FROM TP
M52	CAUSGSN00010829	1/2 - 1 Mile SSE
K54	CADWR0000034156	1/2 - 1 Mile SSE
K55	CAUSGSN00009447	1/2 - 1 Mile SSE
N56	CADWR9000001406	1/2 - 1 Mile South
M57	CADWR0000028073	1/2 - 1 Mile South
N59	CAUSGSN00000963	1/2 - 1 Mile South
P62	CAUSGSN00018898	1/2 - 1 Mile South
N63	CALLNL000001191	1/2 - 1 Mile South
P65	CADWR0000021470	1/2 - 1 Mile South
P66	CADWR0000015916	1/2 - 1 Mile South
P67	CADWR9000001389	1/2 - 1 Mile South
N69	CAUSGSN00003520	1/2 - 1 Mile South
N70	CAUSGS000002829	1/2 - 1 Mile South
N71	CADDW0000009983	1/2 - 1 Mile South
P72	CADWR9000001390	1/2 - 1 Mile South
N73	CADWR9000001388	1/2 - 1 Mile South
R75	CADWR9000001558	1/2 - 1 Mile East
Q76	CAUSGSN00005516	1/2 - 1 Mile SSE
Q77	CADWR0000020643	1/2 - 1 Mile SSE
Q80	CAUSGSN00017688	1/2 - 1 Mile SSE
T82	CADWR9000001583	1/2 - 1 Mile East
S84	CADWR9000001673	1/2 - 1 Mile North
Q85	CADWR9000001387	1/2 - 1 Mile SSE
V88	CAUSGSN00010306	1/2 - 1 Mile SSW
U89	CADWR9000001378	1/2 - 1 Mile South
O91	CADWR9000001622	1/2 - 1 Mile WNW
W94	CAUSGSN00010680	1/2 - 1 Mile SSW
V95	CADWR0000017895	1/2 - 1 Mile SSW
Q96	CADWR9000001383	1/2 - 1 Mile SSE
V100	CAUSGSN00015227	1/2 - 1 Mile SSW
X104	CADWR0000016022	1/2 - 1 Mile SSE
X105	CAUSGSN00014536	1/2 - 1 Mile SSE
106	CADWR9000001566	1/2 - 1 Mile East
Y107	CADWR9000001540	1/2 - 1 Mile East
Z108	CADWR9000001411	1/2 - 1 Mile SW
110	CADWR0000012484	1/2 - 1 Mile South
111	CADWR0000000414	1/2 - 1 Mile ESE
AB114	CADWR9000001685	1/2 - 1 Mile NNW
115	CADWR0000020009	1/2 - 1 Mile SSE
Y117	CADWR0000033206	1/2 - 1 Mile East
AD121	CAUSGSN00003995	1/2 - 1 Mile East
AF124	CADWR9000001367	1/2 - 1 Mile SSW
AD128	CAUSGSN00001130	1/2 - 1 Mile East
AH130	CAEDF0000037056	1/2 - 1 Mile West
AH131	CAEDF0000052963	1/2 - 1 Mile West
AF133	CADWR9000001368	1/2 - 1 Mile SSW
AH135	CAEDF0000085280	1/2 - 1 Mile West
AH136	CAEDF0000142959	1/2 - 1 Mile West
AI137	CADWR9000001699	1/2 - 1 Mile NNW
AH138	CAEDF0000011106	1/2 - 1 Mile West
AG141	CADWR0000020962	1/2 - 1 Mile SSW
AH142	CAEDF0000071142	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AG143	CAUSGSN00008825	1/2 - 1 Mile SW
AJ144	CADWR9000001338	1/2 - 1 Mile SSW
AK145	CADWR9000001391	1/2 - 1 Mile SW
AH146	CAEDF0000019366	1/2 - 1 Mile West
AG147	CADWR0000036317	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 06693842.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	4991 Macario Dr	CLIENT:	Hillmann Environmental Co.
ADDRESS:	4991 Macario Dr Oceanside CA 92057	CONTACT:	Gabby Cyrulik
		INQUIRY #:	06693842.2r
LAT/LONG:	33.255975 / 117.304033	DATE:	October 07, 2021 8:45 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **ESE** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**CAEDF0000030842**
A2 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000101066**
A3 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000046256**
A4 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000143537**
A5 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000060201**
A6 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000063633**
A7 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000064259**
A8 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000033284**
A9 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000040973**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
A10 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000056307**
A11 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000007073**
A12 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000122953**
A13 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000136362**
A14 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000088720**
B15 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000052254**
C16 **SSE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000131357**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z008S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
C17 **SE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000131369**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z009S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

	Database	EDR ID Number
B18 **ESE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000131422**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z007S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

	Database	EDR ID Number
D19 **SE** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR9000001507**

State Well #:	11S04W04H002S	Station ID:	31308
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

	Database	EDR ID Number
20 **SE** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR9000001476**

State Well #:	Not Reported	Station ID:	51201
Well Name:	COW #13A	Basin Name:	Lower San Luis Rey Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	30	Well Completion Rpt #:	792851

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D21
ESE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000131396**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04H001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1942	Well Depth:	58
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D22
ESE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000131397**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04H002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	68.00	Feet to sea level:	Not Reported
Note:	Not Reported		

E23
South
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000131323**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04G002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E24
South
1/4 - 1/2 Mile
Higher | **CA WELLS** | **CAUSGSN00002393**

D25
ESE
1/4 - 1/2 Mile
Lower | **CA WELLS** | **CAUSGSN00016891**

F26
SSE
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000131313**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04G001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F27
SSE
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000131314**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04G003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1924	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G28
ESE
1/2 - 1 Mile
Lower | **CA WELLS** | **CADWR9000001527**

State Well #:	11S04W03D001S	Station ID:	10659
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G29
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001528**

State Well #:	11S04W03D002S	Station ID:	31305
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

H30
NW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00004207**

31
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000016038**

I32
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001649**

State Well #:	10S04W33G001S	Station ID:	30293
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I33
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001650**

State Well #:	10S04W33G002S	Station ID:	11245
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

H34
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131573**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33M001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported

Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	190	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

E35
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000131294**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04K003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E36
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00008152**

37
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000022219**

I38
NNE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000292**

I39
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131604**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33G001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1927
Well Depth:	62	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	0.00	Feet to sea level:	Not Reported

Note: Not Reported

I40
NNE **FED USGS** **USGS40000131605**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33G002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1927
Well Depth:	60	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

I41
NNE **CA WELLS** **CADWR0000010320**
1/2 - 1 Mile
Lower

G42
ESE **FED USGS** **USGS40000131420**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03D001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	68.00	Feet to sea level:	Not Reported
Note:	Not Reported		

G43
ESE **FED USGS** **USGS40000131421**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03D002S	Type:	Well

Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	68.00	Feet to sea level:	Not Reported
Note:	Not Reported		

J44
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000131481**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W32R001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	3	Level reading date:	1972-04-27
Feet below surface:	7.20	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1966-02-16	Feet below surface:	8.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-01	Feet below surface:	9.00
Feet to sea level:	Not Reported	Note:	Not Reported

K45
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000016335**

L46
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000131619**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33G003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported

Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	45	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	9.00	Feet to sea level:	Not Reported
Note:	Not Reported		

L47
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001660**

State Well #:	10S04W33G003S	Station ID:	30294
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

M48
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000012289**

J49
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001564**

State Well #:	10S04W32R001S	Station ID:	11242
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

K50
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001427**

State Well #:	11S04W04J002S	Station ID:	10664
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

M51
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131275**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04J001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M52
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00010829**

K53
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131287**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04J002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1955	Well Depth:	145
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	64.00	Feet to sea level:	Not Reported
Note:	Not Reported		

K54
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000034156**

K55
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00009447**

N56
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001406**

State Well #:	11S04W04K001S	Station ID:	31309
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M57
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000028073**

M58
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000131257**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04K001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1939	Well Depth:	128
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	69.00	Feet to sea level:	Not Reported
Note:	Not Reported		

N59
South
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000963**

O60
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131563**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33K001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	50	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	21.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P61
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000131233**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Q003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1936	Well Depth:	66
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	63.00	Feet to sea level:	Not Reported
Note:	Not Reported		

P62
South
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00018898**

N63
South
1/2 - 1 Mile
Lower

CA WELLS **CALLNL000001191**

Well ID:	102026	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	11S/04W-04K05 S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Krypton	Results:	.0000000845553
Units:	cm3STP/g	Date:	10/07/2004
Chemical:	Neon	Results:	.000000237756
Units:	cm3STP/g	Date:	10/07/2004
Chemical:	Tritium (Hydrogen 3)	Results:	18.55
Units:	pCi/L	Date:	10/20/2004
Chemical:	Helium-4	Results:	.0000000740113
Units:	cm3STP/g	Date:	10/07/2004
Chemical:	Xenon	Results:	.0000000112792
Units:	cm3STP/g	Date:	10/07/2004

Chemical:	Argon	Results:	.000373243
Units:	cm3STP/g	Date:	10/07/2004
Chemical:	Helium-3/Helium-4	Results:	.00000115496
Units:	atom ratio	Date:	10/07/2004

P64
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000131234**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Q001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	96
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

P65
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000021470**

P66
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000015916**

P67
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001389**

State Well #:	11S04W04Q002S	Station ID:	31312
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

68
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000131523**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W34Z001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1917
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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N69
South
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00003520**

N70
South
1/2 - 1 Mile
Lower

CA WELLS **CAUSGS000002829**

N71
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000009983**

P72
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001390**

State Well #:	11S04W04Q003S	Station ID:	10669
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

N73
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001388**

State Well #:	11S04W04R003S	Station ID:	31424
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Q74
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131232**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04R003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1934	Well Depth:	150
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	64.00	Feet to sea level:	Not Reported
Note:	Not Reported		

R75
East
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001558**

State Well #:	11S04W03C004S	Station ID:	31304
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Q76
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00005516**

Q77
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020643**

Q78
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131230**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04K002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Q79
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131231**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z006S	Type:	Well

Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1912	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Q80
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00017688**

S81
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000131635**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33C001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	39.00	Feet to sea level:	Not Reported
Note:	Not Reported		

T82
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000001583**

State Well #:	10S04W34Z002S	Station ID:	30296
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

U83
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000131217**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04P001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

S84
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000001673**

State Well #:	10S04W33C001S	Station ID:	11243
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Q85
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001387**

State Well #:	11S04W04R002S	Station ID:	10671
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

P86
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000131209**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Q005S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	64.00	Feet to sea level:	Not Reported
Note:	Not Reported		

V87
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131264**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	011S004W04M002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	116
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	63.00	Feet to sea level:	Not Reported
Note:	Not Reported		

V88
SSW **CA WELLS** **CAUSGSN00010306**
1/2 - 1 Mile
Lower

U89
South **CA WELLS** **CADWR9000001378**
1/2 - 1 Mile
Lower

State Well #:	11S04W04Q005S	Station ID:	10670
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

90
NW **FED USGS** **USGS40000131611**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33E001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	10	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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O91
WNW **CA WELLS** **CADWR9000001622**
1/2 - 1 Mile
Higher

State Well #:	10S04W33K001S	Station ID:	11246
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T92
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000131507**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W34Z002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1909	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1930-01-16
Feet below surface:	21.0	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1929-11-30	Feet below surface:	18.1
Feet to sea level:	Not Reported	Note:	Not Reported

W93
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131218**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04P002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	62
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

W94
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00010680**

V95
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000017895**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q96
SSE **CA WELLS** **CADWR9000001383**
1/2 - 1 Mile
Lower

State Well #:	11S04W04R001S	Station ID:	31423
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

X97
SSE **FED USGS** **USGS40000131229**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04R002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	142
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	69.00	Feet to sea level:	Not Reported
Note:	Not Reported		

T98
East **FED USGS** **USGS40000131487**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W34Z003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1914	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	3	Level reading date:	1930-01-16
Feet below surface:	16.0	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1929-11-30	Feet below surface:	15.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1929-09-23	Feet below surface:	13.1
Feet to sea level:	Not Reported	Note:	Not Reported

V99
SSW **FED USGS** **USGS40000131258**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04M001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	137
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

V100
SSW **CA WELLS** **CAUSGSN00015227**
1/2 - 1 Mile
Lower

X101
SSE **FED USGS** **USGS40000131216**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04R001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1952	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	71.00	Feet to sea level:	Not Reported
Note:	Not Reported		

R102
East **FED USGS** **USGS40000131468**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03C003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

R103
East
1/2 - 1 Mile
Lower

FED USGS **USGS40000131469**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03C004S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	97
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	70.00	Feet to sea level:	Not Reported
Note:	Not Reported		

X104
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000016022**

X105
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00014536**

106
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000001566**

State Well #:	10S04W34Z003S	Station ID:	11249
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Y107
East
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001540**

State Well #:	11S04W03C002S	Station ID:	39505
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Z108
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001411**

State Well #:	11S04W04M002S	Station ID:	10665
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AA109
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131219**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z005S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

110
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000012484**

111
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000000414**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AB112
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131650**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33C003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1967-02-01
Feet below surface:	18.00	Feet to sea level:	Not Reported
Note:	Not Reported		

113
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131281**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AB114
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001685**

State Well #:	10S04W33C003S	Station ID:	11244
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

115
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020009**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC116
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131256**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03Z002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Y117
East
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000033206**

AA118
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131195**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04N004S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	72.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Y119
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000131443**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03C002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1953	Well Depth:	96
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	66.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Z120
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131235**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04M003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1922	Well Depth:	121
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AD121
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00003995**

AE122
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131398**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W05G001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1939	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AE123
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131399**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	011S004W05G002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1939	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AF124
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001367**

State Well #:	11S04W04N004S	Station ID:	31311
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AD125
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000131442**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03C001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	81
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AG126
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131220**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04Z001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AF127
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131196**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04N003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1948	Well Depth:	137
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	64.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AD128
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00001130**

AG129
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131236**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04M004S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1948	Well Depth:	114
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	59.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AH130
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000037056**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AH131
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000052963**

AC132
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000131208**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W03Z001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

AF133
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001368**

State Well #:	11S04W04N003S	Station ID:	10667
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AI134
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131671**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010S004W33C002S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19520101
Well Depth:	118	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	3	Level reading date:	1966-02-17
Feet below surface:	21.34	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1966-02-01	Feet below surface:	21.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1952-11-26	Feet below surface:	9
Feet to sea level:	Not Reported	Note:	Not Reported

AH135
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000085280**

AH136
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000142959**

AI137
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000001699**

State Well #:	10S04W33C002S	Station ID:	30292
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AH138
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000011106**

AJ139
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131159**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04P003S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	137
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	64.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AG140
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131201**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W04N001S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1952	Well Depth:	131
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-02-01
Feet below surface:	61.00	Feet to sea level:	Not Reported
Note:	Not Reported		

AG141
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020962**

AH142
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000071142**

AG143
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00008825**

AJ144
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001338**

State Well #:	11S04W04P003S	Station ID:	10668
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AK145
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000001391**

State Well #:	11S04W04M004S	Station ID:	10666
Well Name:	Not Reported	Basin Name:	Lower San Luis Rey Valley

Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

AH146
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000019366**

AG147
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000036317**

AK148
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000131202**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W05R004S	Type:	Well
Description:	Not Reported	HUC:	18070303
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1911	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92057	13	0

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX F

OTHER DOCUMENTS

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

October 13, 2021

Alyssa Berry
HILLMANN CONSULTING
aberry@hillmannconsulting.com

PR4-100821-06
4991 MACARIO DRIVE, OCEANSIDE, CA 157-070-42, 122-190-19

Dear Requestor:

On October 8, 2021 the Department of Toxic Substances Control (DTSC) received your email of October 8, 2021 requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generator, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov/report_search.cfm?id=5. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS Unit by email at hwtsreports@dtsc.ca.gov or by phone at (916) 324-2444 for further information.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me via email at.

Sincerely,

Julie Johnson
Julie Johnson
Regional Records Coordinator
Department of Toxic Substances Control

HILLMANN
CONSULTING

October 8, 2021

Department of Toxic Substances Control
San Diego Field Office
2375 Northside Drive, Suite 100
San Diego, CA 92108-2700
Phone (619) 516-1982
Fax (619) 516-1963
PubReqAct@dtsc.ca.gov

RE: DTSC Files:

APNs: 157-070-42 and 122-190-19
4991 Macario Drive
Oceanside, CA

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,

Alyssa Berry
Environmental Technician
Hillmann Consulting, LLC
aberry@hillmannconsulting.com

Alyssa Berry

From: DEH, Public Records <PublicRecords.DEH@sdcounty.ca.gov>
Sent: Monday, October 11, 2021 10:31 AM
To: Alyssa Berry
Subject: Records Request 4991 Macario Dr/APN 157-070-42-00 & 122-190-19-00

Good Morning,

No requested records were found for the provided address and APNs.

New Search Function: Scanned files for closed Site Assessment and Mitigation Program cases and Monitoring Well Program permits can be downloaded directly through the new DEH Document Library at:

http://www.sandiegocounty.gov/content/sdc/deh/doclibrary/

You can search by Record ID, APN, address, document category, or keyword.

Thank you,

Edwin C. Andrus
Edwin C. Andrus
Office Support Specialist
DEHQ – ADMIN

Help us make sure our customers have a positive experience. Please take 60 seconds to provide us with your feedback.

LIVE WELL SAN DIEGO

For local information and daily updates on COVID-19, please visit **www.coronavirus-sd.com.** To receive updates via text, send **COSD COVID19** to **468-311.**

Coronavirus Disease 2019 COVID-19

From: Alyssa Berry <aberry@hillmanngroup.com>
Sent: Friday, October 8, 2021 12:43 PM
To: DEH, Public Records <PublicRecords.DEH@sdcounty.ca.gov>
Subject: [External] Records Request

Please see the attached public records request

Thank you,
Alyssa Berry
Environmental Technician

Hillmann Consulting, LLC

1745 W. Orangewood Ave., Suite 201
Orange, CA 92868
Tel: (714) 634-9500
Fax: (714) 634-9507

aberry@hillmanngroup.com
www.HillmannConsulting.com

Request # _____

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH & QUALITY
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700
www.sdcdeh.org

PUBLIC RECORDS REQUEST FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Alyssa Berry **E-Mail:** aberry@hillmannconsulting.com

Phone: (714) 634-9500 **FAX:** ( )

Company Name: Hillmann Consulting

Mailing Address: 1745 W Orangewood Ave Orange, CA 92868

(You may attach a business card/overprint with business card if preferred)

Additional information may be accessed from the DEHQ website, www.sdcdeh.org. Email your completed form to the Public Records Program at PublicRecords.DEH@sdcounty.ca.gov. The following information is required. Separate forms are needed for each address or parcel number.

4991 Macario Drive, Oceanside, CA **or** 157-070-42 and 122-190-19

Exact Address (Street, City and Zip Code) | Assessor Parcel Number

Optional information (establishment permit number, business name, etc.):

Please indicate the purpose of your search by checking all that apply:

- [X] Contaminated Property Investigation(s) (SAM Cases)
- [X] Monitoring Well Files (MWP)
- [X] SAM Closure Letter/Report
- [X] Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
- [ ] Other (be specific): ___

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: _____

Files copied for: _____ of _____ Date: _____

Request cancelled by: _____ Date: _____

Photocopies _____ Cost _____ E-mailed / picked up / mailed on _____ By _____

A search for DEHQ records checked above has been conducted and the following apply:

- [ ] SAM files for the permit number(s) listed below are available.
  #_____ #_____ #_____ #_____ #_____
- [ ] HMD/UST files for the permit number(s) listed below are available.
  #_____ #_____ #_____ #_____ #_____
- [ ] MWP files for the permit number(s) listed below are available.
  #_____ #_____ #_____ #_____ #_____
- [ ] No SAM/HMD/UST/MWP records were found / purged for the address/APN you requested.

_____ _____

Signature - DEHQ Representative | Date

DEHQ complies fully with the California Public Records Act and the Federal Freedom of Information Act. Please be advised that photocopy and/or scanned file fees may apply.

HILLMANN
CONSULTING

October 8, 2021

City of Oceanside Fire Department
300 North Coast Highway
Oceanside, CA 92054
Phone: (760) 435-3001
Fax: (760) 967-3922

RE: Underground Storage Tanks/Hazardous Materials Files:

APNs: 157-070-42 and 122-190-19
4991 Macario Drive
Oceanside, CA

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) or hazardous materials on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Alyssa Berry
Environmental Technician
Hillmann Environmental Group, LLC
aberry@hillmannconsutling.com

Alyssa Berry

From: Salamat, Radley <Radley.Salamat@sdcounty.ca.gov>
Sent: Monday, October 11, 2021 11:03 AM
To: Alyssa Berry
Cc: Parez, Jitka
Subject: RE: Public Records Request

Hi Alyssa,

There is no record regarding the address 4991 Macario Drive, Oceanside.

Thank you,

Radley Salamat | Air Pollution Control District | 858-586-2816

From: Alyssa Berry <aberry@hillmanngroup.com>
Sent: Friday, October 8, 2021 12:33 PM
To: LUEG, APCDPermits <apcdpermits@sdcounty.ca.gov>
Subject: [External] Public Records Request

Good afternoon,

Please see the attached public records request.

Thank you,
Alyssa Berry
Environmental Technician

Hillmann Consulting, LLC
1745 W. Orangewood Ave., Suite 201
Orange, CA 92868
Tel: (714) 634-9500
Fax: (714) 634-9507

aberry@hillmanngroup.com
www.HillmannConsulting.com

San Diego Air Pollution Control District

10124 Old Grove Rd, San Diego, CA 92131
www.sdapcd.org
858.586.2600 FAX: 858.586.2601 Email: apcdpermits@sdcounty.ca.gov

PUBLIC RECORDS REQUEST FORM

ATTENTION REQUESTOR: To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting. Please limit your request to one facility or one site address for each request form filed. Additional forms or pages can be used if requesting information for more than one facility or for records not identified on this form. Requests should reasonably describe identifiable records prepared, owned, used, or retained by the District. District Public Records staff is available to assist you in identifying those records in the District's possession. The District is not required by law to create a new record.

REQUESTOR INFORMATION

NAME: Alyssa Berry		DATE: 10/8/21
COMPANY: Hillmann Consulting		
MAILING ADDRESS: 1745 W Orangewood Ave, Suite 201		
CITY: Orange	STATE: CA	ZIP CODE: 92868
PHONE NUMBER:	FAX NUMBER:	
EMAIL ADDRESS: aberry@hillmannconsutling.com		

REQUESTED RECORDS

☐ Applications (APP)	☐X Complaints (CMP)	☐X Asbestos Notifications/Records (ASB)
☐ Authority to Construct	☐X Site Inspection Reports	☐ Permits to Operate (PTO)
☐X Notices to Comply (NTC)	☐ Source Test Reports	☐X Toxic-Health Risk Assessment (HRA)
☐X Notices of Violation (NOV)	☐Emissions Inventory	☐XAir monitoring data
☐ Title V Permit	☐ Other (describe below or on additional pages):	

TIME PERIOD OF DOCUMENTS REQUESTED From: 1/1/1900 To: present

REQUESTED ADDRESS INFORMATION (If Applicable)

☐ Equipment Location Address - 4991 Macario Drive, Oceanside, CA APNs - 157-070-42 and 122-190-19	
☐ Owner Mailing Address	
☐ Billing Address	
SITE I.D. NO. (if known):	APPL. AND/OR PERMIT NO. (if known):

☐ I wish to inspect the requested records. I do not want copies produced at this time.
☐ I request that the SDAPCD contact me prior to copying the requested records if the cost exceeds $20.00.
☐X I would like copies of the requested records.
☐ I hereby agree to reimburse the SDAPCD for the direct cost of duplication and any other applicable charges (See Paragraph 8 of the Instructions for Requesting Records.

Signature of Requestor _Alyssa Berry_____ Date _10/8/21_____

San Diego Air Pollution Control District
INSTRUCTIONS FOR REQUESTING RECORDS

1. In order to expedite your request, requests for records should be in writing. Requests will be processed in the order received. A form is available on the APCD's web page at http://www.sdapcd.org. Requests may be submitted by facsimile to (858) 586-2601, or by email to apcdpermits@sdcounty.ca.gov.

2. Requests must be for records prepared, owned, used, or retained by the District. Requests should be for clearly identifiable records. If necessary, the District will assist the requestor in making a request that describes reasonably identifiable records. Copies will not be provided if disclosure would infringe upon a copyright, trade secret, or is otherwise exempt in accordance with state law.

3. A search for facility records can only be conducted by one or all of the following:

    i. Facility Name, Address, or Identification Number;
    ii. Facility Application Number, or Permit to Operate Number; or
    iii. Facility Notice of Violation/Notice to Comply Number.

4. You will be notified in writing within ten (10) days whether your request seeks copies of disclosable public records prepared, owned, used, or retained by this agency.

4. If the search for records finds the records voluminous, you will be notified of the approximate number of pages and/or length of time it will take to process your request.

5. If the records you requested have been marked confidential by the source of the record, you will be notified and given the option of continuing with the District's trade secret process.

6. If your request is to review records, rather than receive copies, the District will notify you once the records are gathered, and arrangements will be made for your review.

Direct costs of duplication are the following:

Paper copies: $.20 first page of each separate document plus $.05 per page for subsequent pages.

Scanned copies: $.20 first page of each separate document plus $.02 per page for subsequent pages, plus $10.00 for each CD.

Electronic copies (provided in an electronic format already maintained by the District) may be provided for free if sent electronically, or for the cost of each CD as specified above.

In addition, when records are requested in electronic format, the requestor shall bear the cost of producing a copy of the record, including the cost to construct the record and the cost of programming and computer services necessary to produce a copy of the record when either of the following applies: (1) the District would be required to produce a copy of an electronic record and the record is one that is produced only at otherwise regularly scheduled intervals, or (2) the request would require data compilation, extraction, or programming to produce the record. [Gov. Code Sec. 6253.9(b)] The District will provide an invoice for charges due along with the copied records. These charges are due and payable upon receipt of the invoice and the copied records. Non-payment of invoices could result in a requirement that requests for records be pre-paid in person before releasing the requested documents.

If you have questions pertaining to the submittal of a Public Records Act request, you may contact the Public Records staff at **(858) 586-2600, Monday through Friday, 8:00 a.m. to 5:00 p.m. Our Fax number is (858) 586-2601. Our email address is apcdpermits@sdcounty.ca.gov.**

City of Oceanside

Water Quality Report 2020

City of Oceanside's Tap Water Supply
Met All State and Federal Health Standards in 2020

The City of Oceanside is committed to providing you with safe and reliable drinking water

The Environmental Protection Agency (EPA) requires community water systems to deliver a Consumer Confidence Report, also known as an annual drinking water quality report, to their customers. These reports provide you information about your local drinking water quality. Your water is routinely tested for about 90 different substances to ensure that the water is of the highest quality. This report lists the substances that were detected during 2020 and includes details about where your water comes from. For more information about your water, contact Lori Rigby at (760) 435-5912.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse a la ciudad de Oceanside a (760) 435-5912 para asistirlo en español.

Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA / Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-(800)-426-4791.

Water Sources

The City of Oceanside has three sources of drinking water.

One source of water supply is **imported water** that is purchased untreated from the **San Diego County Water Authority (SDCWA)**. This raw water is then treated at Oceanside's Robert A. Weese (R.A. Weese) Water Treatment Plant. This facility filters and disinfects water from lakes and rivers, supplying about 82% of the drinking water used in Oceanside.

The second source is **treated drinking water** purchased directly from **SDCWA** which is blended with water from the **Carlsbad Desalination Plant**; this is about 8% of Oceanside's water supply.

The remaining 10% of the City's water supply comes from Oceanside's **Mission Basin Groundwater Purification Facility (MBGPF)**. This facility treats brackish groundwater from wells located in the San Luis Rey River Valley. The groundwater is purified by reverse osmosis and then disinfected.

The R.A. Weese Water Treatment Plant is maintained and operated by highly trained and certified individuals.

Imported water travels hundreds of miles away from the Colorado River and Northern California.

The Mission Basin Groundwater Purification Facility uses reverse osmosis to treat local brackish groundwater extracted from the Mission Basin Aquifer.

Oceanside delivers . . .

20 MILLION
gallons per day
of clean drinking water to homes and businesses

Where Our Water Comes From

Approximately 90% of the water we use in Oceanside is imported from hundreds of miles away. This is "surface water" from lakes and rivers in Northern California and the Colorado River Basin. The Metropolitan Water District (MWD) imports this water to Southern California via a 242-mile-long aqueduct that carries Colorado River water from Lake Havasu and a 444-mile-long aqueduct bringing water from the Sacramento-San Joaquin Delta. Both aqueducts terminate in Lake Skinner in Riverside County where these waters are combined. The SDCWA purchases this imported water from MWD and distributes it to water agencies throughout San Diego County, including the City of Oceanside.

Source Water Assessment

In December 2002, MWD completed its source water assessment of its Colorado River and State Water Project supplies. Colorado River supplies are considered to be most vulnerable to contamination from recreation, urban/storm water runoff, increasing urbanization in the watershed and wastewater. State Water Project supplies are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A summary of the assessment can be obtained by contacting MWD at (213) 217-5696. The Carlsbad Desalination Plant (CDP) completed a source water assessment (Watershed Sanitary Survey) in August 2005. The survey was performed to investigate potential contaminant sources in the Pacific Ocean in the vicinity of the intake structure and in the watershed of the Agua Hedionda Lagoon. The potential contaminant sources evaluated in the Watershed Sanitary Survey are not likely to impact the water quality at the desalination plant. A summary of the assessment can be obtained by contacting CDP at (702) 606-8742.

Ground Water Assessment

An assessment of the current groundwater sources for the City was completed in February 2002. The sources are considered most vulnerable to contamination from sewer collections and/or agricultural/ irrigation wells. A copy of the complete assessment is available at the City of Oceanside Water Utilities Department at 300 North Coast Highway in Oceanside. You may request a summary of the assessment by contacting (760) 435-5800.

Contaminants in Source Water

The sources of drinking water (tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Utilities Commission Meetings

The Oceanside Utilities Commission meets bi-monthly in the City Council Chambers at 300 North Coast Highway. The public is welcome to participate in these meetings. For more information, please call (760) 435-5800.

Contaminants that may be present in **source water** include:

Microbial contaminants such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

Inorganic contaminants such as salts and metals that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides that may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.

Organic chemical contaminants including synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application and septic systems.

Radioactive contaminants that can be naturally-occurring or be the result of oil and gas production and mining activities.

2020 Report of DETECTED Compounds

OCEANSIDE

	Unit	MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Source Waters: R.A. Weese surface water	Source Waters: MBGPF ground water	Source Waters: SDCWA surface water	Source Waters: MWD surface water	Source Waters: Carlsbad Desalination Plant	Sources in Drinking Water
PRIMARY DRINKING WATER STANDARDS (PDWS) -- Mandatory Health-related Standards											
Combined Filter Effluent Turbidity (a)	NTU	TT=1 NTU	NA	NA	Highest	0.27	NA	0.01	0.09	0.08	Soil runoff.
					%<0.3 NTU	100	NA	100	100	100	
INORGANIC											
Aluminum (b)	mg/L	1	0.6	0.05	Range	0.053 - 0.15	NA	ND	ND - 0.2	ND	Erosion of natural deposits; residue from surface water treatment process
					Average	0.09	ND	ND	0.11	ND	
Arsenic	µg/L	10	0.004	2	Range	NA	NA	NA	ND	ND	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
					Average	1.1	1.2	ND	ND	ND	
Barium	mg/L	1	2	0.1	Range	NA	NA	NA	ND	ND	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits.
					Average	0.08	0.045	ND	ND	ND	
Fluoride Natural	mg/L	2	1	0.1	Range	0.2 - 0.3	0.24 - 0.66	0.2 - 0.3	0.2 - 0.3	NA	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
					Average	0.2	0.4	0.2	0.2	NA	
Fluoride (c) Added	mg/L	2.0	Optimal 1	Control 0.1	Range	NA	NA	0.5 - 0.8	0.6 - 0.9	0.6 - 0.8	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
					Average	Not added	Not added	0.6	0.7	0.7	
Selenium	µg/L	50	30	5	Range	NA	NA	NA	ND	ND - 6.1	Discharge from mines, chemical manufacturers and refineries; erosion of natural deposits.
					Average	1.0	2.6	ND	ND	ND	
Nitrate as N	mg/L	10	10	0.4	Range	ND - 0.28	0.85 - 1.38	ND - 0.4	ND	ND	Runoff & leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
					Average	0.19	1.04	ND	ND	ND	
Copper (d)	mg/L	1.3 (AL)	0.3	0.05	Range for 50 homes sampled = ND - 0.370 90th percentile for 50 homes sampled = 0.138						Internal corrosion of household plumbing; leaching of wood preservatives; erosion of natural deposits.
Lead (d)	µg/L	15 (AL)	0.2	5	Range for 50 homes sampled = ND 90th percentile for 50 homes sampled = 0						Internal corrosion of household plumbing; discharges from industrial manufacterers; erosion of natural deposits.
MICROBIOLOGICAL											
Total Coliform Bacteria (e)	%	5	(0)	NA	Range	Distribution System = ND - Present					Naturally present in the environment.
					Average	Distribution System = ND					
RADIOLOGICAL (f)											
Gross Alpha	pCi/L	15	(0)	3	Range	ND	NA	ND	ND - 3	ND	Erosion of natural deposits.
					Average	ND	5.5	ND	ND	ND	
Gross Beta	pCi/L	50	(0)	4	Range	NA	NA	ND	ND - 5	ND	Decay of natural and man-made products.
					Average	NA	NA	ND	ND	ND	
Uranium	pCi/L	20	0.43	1	Range	NA	3.8 - 4.2	ND	ND - 2	ND	Erosion of natural deposits
					Average	1.1	4	ND	2	ND	
Combined Radium	pCi/L	5	0	1	Range	NA	NA	ND	ND	ND - 0.712	Erosion of natural deposits
					Average	0.42	2.76	ND	ND	0.094	
Disinfection by Products (DBP)											
Total Chlorine (g)	mg/L	(RAA) [4.0]	[4.0]	NA	Distribution System wide range = 0.12 - 3.6 Distribution System highest RAA = 2.6						Drinking water disinfectant added for treatment
HAA5 (h)	µg/L	(LRAA) 60	NA	1	Distribution System wide range = 2.6 - 21.3 Distribution System highest LRAA = 21.3						By-product of drinking water disinfection.
Total Trihalo-methanes (h)	µg/L	(LRAA) 80	NA	1	Distribution System wide range = 12.0 - 43.0 Distribution System highest LRAA = 43						By-product of drinking water disinfection.

The data tables above and on the following page list all the substances that were detected in the drinking water during 2020 or the most recent sampling within the last five years. The presence of these substances does not necessarily constitute a health risk. The tables contain the name of each substance, the unit of measurement, the highest level allowed, the ideal goals, the detection level, the amount detected, and the usual source of the substance. Some substances are not tested each year because the concentrations do not vary significantly from year to year. For these substances, the tables include data from the most recent testing completed.

2020 Report of DETECTED Compounds

OCEANSIDE

	Unit	MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Source Waters: R.A. Weese surface water	Source Waters: MBGPF water	Source Waters: SDCWA surface water	Source Waters: MWD surface water	Source Waters: Carlsbad Desalination Plant	Sources in Drinking Water
/ $+, ")'#4 */ ("')'#)/ *55'6 78968; */ 8<=><?>7											
Chloride	mg/L	500	NA	NA	Range	58 - 88	103 - 130	73 - 81	ND - 200	54 - 100	Runoff/leaching from natural deposits; seawater influence
					Average	74	115	77	108	75	
Color	Units	15	NA	NA	Range	ND - 3	ND - 3	ND	1 - 2	ND	Naturally occurring organic materials
					Average	ND	ND	ND	2	ND	
Odor	Units	3	NA	NA	Range	ND	ND	NA	NA	ND	Naturally occurring organic materials
					Average	ND	ND	ND	2	ND	
Sulfate	mg/L	500	NA	NA	Range	64 - 237	120 - 156	63 - 100	152 - 208	12 - 17	Runoff/leaching from natural deposits; industrial wastes
					Average	155	139	82	180	14	
Total Dissolved Solids	mg/L	1000	NA	NA	Range	330 - 595	487 - 586	NA	472 - 588	140 - 276	Runoff/leaching from natural deposits
					Average	485	540	300	530	205	
Turbidity (i)	Units	5	NA	NA	Distribution System wide range = 0.10 - 0.40 Distribution System wide average = 0.15						Soil runoff
Iron	µg/L	300	NA	NA	Range	NA	ND - 200	ND	ND	ND	Leaching from natural deposits; industrial wastes
					Average	NA	ND	ND	ND	ND	
Manganese	µg/L	50	NA	NA	Range	NA	ND - 6.9	ND	ND	ND	Leaching from natural deposits
					Average	NA	ND	ND	ND	ND	
!"#$ %!& '($)* +, "('- ."""(/ **0+- #1 2!"#											
Manganese	µg/L	NA	NA	NA	Range	ND	NA	NA	NA	NA	Leaching from natural deposits
					Average	ND	0.97	NA	NA	NA	
HAA9	µg/L	NA	NA	NA	Range	Distribution System wide range = 10 - 32					By product of drinking water chlorination.
					Average	Distribution System wide average = 23					
Total Organic Carbon (k)	mg/L	NA	NA	NA	Range	NA	NA	NA	NA	NA	Naturally occuring element
					Average	2.6	NA	NA	NA	NA	
Bromide (k)	µg/L	NA	NA	NA	Range	NA	NA	NA	NA	NA	Naturally occuring element
					Average	58.0	NA	NA	NA	NA	
)). (., "'& *3'#'- $($#/											
Alkalinity as $CaCO_3$	mg/L	NA	NA	NA	Range	79 - 123	84 - 100	NA	105 - 121	46 - 104	Leaching from natural deposits
					Average	100	93	97	113	64	
Boron	µg/L	1000(NL)	NA	100	Range	NA	NA	NA	NA	360 - 780	Fertilizer and pesticide runoff; Leaching from natural deposits
					Average	NA	NA	130	130	550	
Calcium	mg/L	NA	NA	NA	Range	27 - 73	42 - 61	29 - 37	52 - 72	17 - 32	Leaching from natural deposits
					Average	53	53	33	62	23	
Magnesium	mg/L	NA	NA	NA	Range	12 - 25	22 - 31	13 - 15	20 - 26	0.89 - 0.98	Leaching from natural deposits
					Average	19.0	27	14	23	0.93	
pH	pH units	NA	NA	NA	Range	7.7 - 8.5	8.01 - 8.37	7.4 - 8.2	NA	8.3 - 8.8	Measure of the acidic or basic character of water.
					Average	8.0	8.2	7.8	8.1	8.5	
Sodium	mg/L	NA	NA	NA	Range	NA	NA	61 - 65	76 - 98	45 - 66	Salt present in the water, usually naturally occuring
					Average	76	78	63	87	55	
Total Hardness	mg/L	NA	NA	NA	Range	120 - 280	200 - 280	120 - 150	211 - 273	42 - 80	Sum of magnesium and calcium, naturally occuring in the environment
					Average	210	245	135	242	57	
Total Hardness	grains/gal	NA	NA	NA	Range	7 - 16.4	11.7 - 16.4	7.0 - 8.6	12.3 - 15.9	2.45 - 4.66	Sum of magnesium and calcium, naturally occuring in the environment
					Average	12.3	14.3	7.9	14.1	3.3	

You Can **Count on Oceanside** to . . .

DELIVER
clean, safe and reliable water every day

SUPPLY
affordable, cost effective and cost-competitive rates

PROVIDE
a reliable source of drinking water

MAINTAIN
water services to improve your quality of life, safeguard the economy and sustain the environment

Fluoride

Oceanside has three sources of water: raw water that is treated at the R.A. Weese water treatment plant, groundwater that is treated at the MBGPF and treated water purchased from SDCWA. Oceanside does not add fluoride during treatment at R.A. Weese or the MBGPF. The fluoride found in these raw water sources is naturally occurring. The third source is imported treated water from SDCWA. Only the imported treated water has added fluoride. The area south of Oceanside Blvd. usually receives this fluoridated water with an average concentration of 0.7 ppm. The water delivered to all other areas in the City usually has an average fluoride level of 0.3 ppm. However, when the City's treatment plants are not operating at full capacity, some or all of the water supply for Oceanside can contain added fluoride up to 0.7 ppm.

Lead

The drinking water is tested for lead every three years and was last tested in 2018. Samples were collected inside fifty-two private homes and at the entry points to the water distribution system. There was no lead detected in the water entering the distribution system, and no detections of lead collected in private homes. Thirty-four kindergarten through twelfth-grade schools requested lead sampling in 2018 and all locations were sampled by the City of Oceanside; one elementary school was sampled in 2019. Lead in drinking water is primarily from materials and components associated with private service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Oceanside is responsible for providing high quality drinking water but cannot control the variety of materials used in home plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at **www.epa.gov/safewater/lead**

Contaminants in Drinking Water

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791) or at **www.epa.gov/safewater**

Drinking Water Disinfection

It is important to disinfect drinking water in order to destroy pathogens that can make people sick. The disinfection must be present in the drinking water system all the way to each home, business and industry. In order to achieve this long-lasting residual, the City uses chloramines to disinfect the drinking water from each source. **Chloramines provide a stable residual throughout the distribution system delivering safe drinking water to each of our customers.**

Terms and Abbreviations

AL - Regulatory Action Level, *the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.*

DLR - Detection Limit for purposes of Reporting, *the lowest level that can be reliably detected and quantified.*

Grains Per Gallon - *is a unit of water hardness defined as 1 grain (64.8 milligrams) of calcium carbonate dissolved in 1 US gallon of water (3.785 liters). It translates to 17.1 parts per million.*

HAA5 - *Sum of Five Regulated Haloacetic Acids (HAAs), i.e., Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, and Trichloroacetic Acid.*

HAA9 - *Sum of Bromochloroacetic Acid, Bromodichloroacetic Acid, Chlorodibromoacetic Acid, Dibromoacetic Acid, Dichloroacetic Acid, Monobromoacetic Acid, Monochloroacetic Acid, Tribromoacetic Acid, and Trichloroacetic Acid.*

LRAA - *Locational Running Annual Average*

MCL - Maximum Contaminant Level, *the highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.*

MCLG - Maximum Contaminant Level Goal, *the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.*

MRDL - Maximum Residual Disinfectant Level, *the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.*

MRDLG - Maximum Residual Disinfectant Level Goal, *The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.*

NA - Not Applicable *or not specified*

ND - Not Detected

NTU - Nephelometric Turbidity Units, *reflecting the lack of clarity in water.*

pCi/L - Picocuries per liter, *a measure of radiation.*

PDWS - Primary Drinking Water Standard, *MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.*

PHG - Public Health Goal, *the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.*

RAA - Running Annual Average, *the monthly average of all samples computed each quarter and averaged for four consecutive quarters.*

TT - Treatment Technique, *a required process intended to reduce the level of a contaminant in drinking water.*

Table Footnotes

a) *Turbidity is a measure of the cloudiness of the water. We monitor it because it indicates the effectiveness of our filtration system. Treatment plant effluent turbidity is recorded every 15 minutes. The turbidity of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month. Turbidity for the Carlsbad Desalination Plant effluent is required to be less than or equal to 0.1 NTU in 95% of the measurements taken each month. Turbidity shall not exceed 1.0 NTU at any time.*

b) *Aluminum also has a secondary MCL of 2 mg/L.*

c) *MWD started fluoridation treatment in 2007. Some MWD water is used to supplement Oceanside's treated water. Oceanside does not currently fluoridate during treatment.*

d) *Lead and Copper are sampled every three years at consumer's taps and was last sampled in 2018. If the Action Level is exceeded in 10% of the samples (90th percentile) then the water supplier must modify the treatment process to prevent the leaching of these metals into the water from the plumbing. None of the samples exceeded the Action Levels.*

e) *No more than 5.0% of all monthly samples taken in the distribution system may be Total Coliform positive. In 2020, there were 1,613 samples taken throughout the City and one was positive (0%). All repeat samples were negative.*

f) *Sampling schedules can vary for radiological compounds, some locations are sampled up to every 9 years. Oceanside, SDCWA, and MWD all sampled for radiological constituents in 2020.*

g) *Compliance is based on a running annual average (RAA) of 30 distribution system samples taken each month. The City of Oceanside uses chloramines for disinfection.*

h) *Compliance is based on a locational running annual average (LRAA) of 8 distribution system sample locations taken every quarter.*

i) *Turbidity is also tested at 30 locations each month within the distribution system and reported under Secondary Standards.*

j) *UCMR4 = Unregulated Contaminants Monitoring Rule 4. The EPA requires monitoring in order to determine if there is a need to regulate these compounds. Testing for R.A. Weese and MBGPF was completed in 2018 and 2020. All 2020 samples were non-detect, and only 2018 values are reflected in the table.*

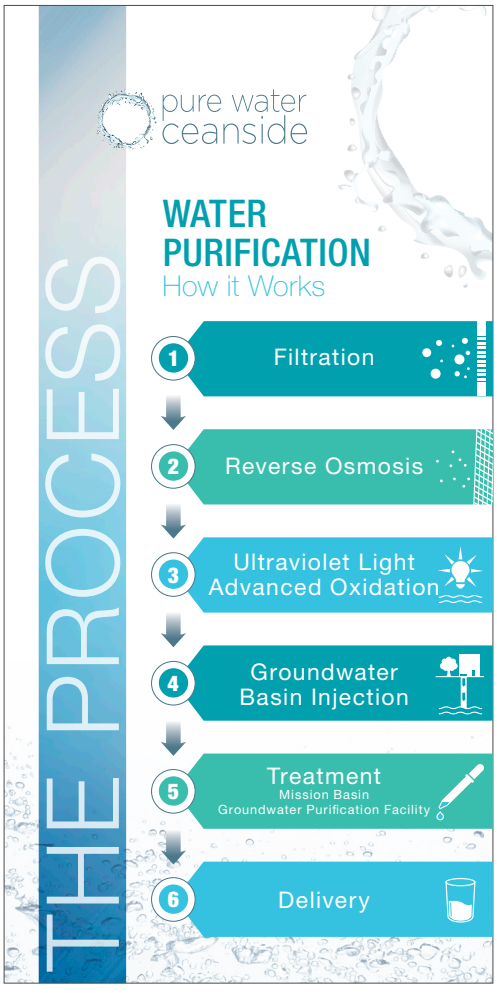
k) *Total Organic Carbon and Bromide results were collected from Weese source water.*

pure water ceanside

Construction for
Pure Water Oceanside is underway!

The project will be the first fully operational advanced water purification project in San Diego County and help diversity Oceanside's water supply and **REDUCE** reliance on imported water. Currently, the City of Oceanside imports almost 90% of our water supply. Pure Water Oceanside will **CREATE** 3 to 5 million gallons of drinking water each day -- enough to provide **32%** of the City of Oceanside's water supply!

This local and sustainable water source will create long lasting **BENEFITS** for the City and its water customers. Pure Water Oceanside requires half the amount of energy needed for transport imported water and reduces greenhouse gas emissions. Additionally, Pure Water Oceanside will **PROTECT** sensitive ecosystems by diverting water from being discharged into the ocean. Decreasing our reliance on imported water will also ensure the City is not as vulnerable to natural disasters such as drought which threaten imported water supplies.



Construction of the Pure Water Oceanside advanced water purification facility, pipeline and wells is on schedule with construction completion anticipated in 2022. **We want to thank the community for your patience during construction!** While the construction is temporary, the benefits of these updates will last for generations.

Pure Water Oceanside facility under construction in June 2021.

HILLMANN
CONSULTING

October 8, 2021

San Diego Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108-2700
Phone (619) 516-1990
Fax (619) 516-1994
rb9records@waterboards.ca.gov

RE: Environmental Files:

APNs: 157-070-42 and 122-190-19
4991 Macario Drive
Oceanside, CA

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. We would like to request any information your office has regarding this property such as environmental files (UST, groundwater, wells, etc.). If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,

Alyssa Berry
Environmental Technician
Hillmann Consulting, LLC
aberry@hillmannconsulting.com

HILLMANN
CONSULTING

September 24, 2020

Department of Toxic Substances Control
San Diego Field Office
2375 Northside Drive, Suite 100
San Diego, CA 92108-2700
Phone (619) 516-1982
Fax (619) 516-1963
PubReqAct@dtsc.ca.gov

RE: DTSC Files:

Old Grove Rd and Frazee Road
Oceanside, CA 92057

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,

Gabriela Cyrulik
Environmental Technician
Hillmann Consulting, LLC
gcyrulik@hillmanngroup.com

HILLMANN
CONSULTING

September 16, 2015

San Diego County Air Pollution Control District
Attn: Public Records
10124 Old Grove Road
San Diego, CA 92131
Phone (858) 586-2600
Fax (858) 586-2601

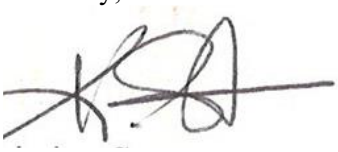
RE: Environmental Information/Files:

APNs 643-060-35-00 and 6743-060-28-00
Chula Vista, CA 91913

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,



Kristine Savona
Office Manager
Hillmann Consulting, LLC
ksavona@hillmanngroup.com

HILLMANN
CONSULTING

July 25, 2013

USE REQUEST FORM 9098

County of San Diego Department of Environmental Health
Hazardous Materials Division
1255 Imperial Avenue
San Diego, CA 92112
Phone (858) 505-6921
Fax (858) 505-6891

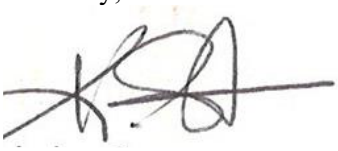
RE: Underground Storage Tanks/Hazardous Materials Files:

133 and 155 W. Main Street
El Cajon, CA 92020

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,



Kristine Savona
Office Manager
Hillmann Consulting, LLC
ksavona@hillmanngroup.com

HILLMANN
CONSULTING

April 9, 2015

City of San Diego Fire Department
1010 2nd Avenue
San Diego, CA 92101
Phone (619) 533-4400
Fax (619) 533-4426

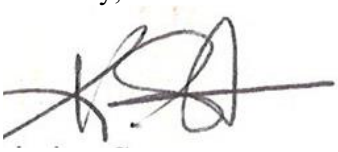
RE: Underground Storage Tanks/Hazardous Materials Files:

730 Camino Del Rio North
San Diego, CA 92108

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,



Kristine Savona
Office Manager
Hillmann Consulting, LLC
ksavona@hillmanngroup.com

HILLMANN
CONSULTING

January 7, 2014

Heartland Fire & Rescue
100 East Lexington Avenue
El Cajon, CA 92020
Phone (619) 441-1601
jfitton@heartlandfire.net

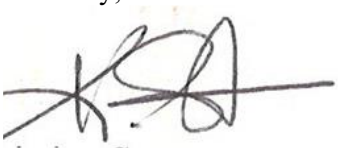
RE: Underground Storage Tanks/Hazardous Materials Files:

133 and 155 W. Main Street
El Cajon, CA 92020

Dear Ms. Fitton:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced properties. Under the Freedom of Information Act, we would like to request any information your office has regarding the properties. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,



Kristine Savona
Office Manager
Hillmann Consulting, LLC
ksavona@hillmanngroup.com

HILLMANN
CONSULTING

July 5, 2011

City of Oceanside Fire Department
300 North Coast Highway
Oceanside, CA 92054
Phone (760) 435-4314
Fax (760) 435-4084

RE: Underground Storage Tanks/Hazardous Materials Files:

Giant K Convenience Store
606 Crouch Street
Oceanside, CA 92054

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) or hazardous materials on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Environmental Group, LLC

HILLMANN
CONSULTING

August 8, 2011

Vista Fire Department
200 Civic Center Drive
Vista, CA 92084
Phone (760) 643-2801
Fax (760) 643-2811

RE: Underground Storage Tanks/Hazardous Materials Files:

1405 Ridge Road
Vista, CA 92081

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) or hazardous materials on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Kristi Hill
Administrative Assistant
Hillmann Environmental Group, LLC

HILLMANN
CONSULTING

September 9, 2013

City of Carlsbad Fire Department
2560 Orion Way
Carlsbad CA 92010
Phone (760) 931-2141
Fax (760) 929-0256

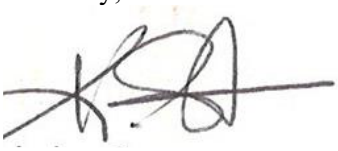
RE: Hazardous Materials Files/Environmental Files:

2531, 2541, 2577 & 2589 State Street
Carlsbad, CA

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. We would like to request any information your office has regarding this property such as environmental files (UST, groundwater, wells, etc.). If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,



Kristine Savona
Office Manager
Hillmann Consulting, LLC
ksavona@hillmanngroup.com

Alyssa Berry

From: RB9_Records, WB@Waterboards <rb9_records@waterboards.ca.gov>
Sent: Friday, October 8, 2021 1:15 PM
To: Alyssa Berry
Subject: RE: Public Records Request

Dear Alyssa,

The San Diego Water Board received your Public Records Act request. I searched the following databases: the Board's Electronic Content Management (ECM) filing system and its application tools, California Integrated Water Quality System (CIWQS), Stormwater Multiple Application and Report Tracking System (SMARTS), and GeoTracker. Based on the information you provided, my search did not return any records related to your request. Feel free to email me back if you have any further questions.

Also I would like to mention that for future Public Records Request, please email us at RB9_Records@waterboards.ca.gov

-Liz

From: Alyssa Berry <aberry@hillmanngroup.com>
Sent: Friday, October 8, 2021 12:25 PM
To: sandiego <sandiego@waterboards.ca.gov>
Subject: Public Records Request

EXTERNAL:

Please see the attached public records request.

Thank you,
Alyssa Berry
Environmental Technician

Hillmann Consulting, LLC
1745 W. Orangewood Ave., Suite 201
Orange, CA 92868
Tel: (714) 634-9500
Fax: (714) 634-9507

aberry@hillmanngroup.com
www.HillmannConsulting.com

Property Detail Report

For Property Located At :
, OCEANSIDE, CA

Owner Information

Owner Name:	**OCEANSIDE UNIFIED SCHOOL DISTRICT**
Mailing Address:	
Vesting Codes:	**/ /**

Location Information

Legal Description:	**POR SEC 4-11-4W**		
County:	**SAN DIEGO, CA**	APN:	**157-070-42-00**
Census Tract / Block:	**186.10 / 3**	Alternate APN:	
Township-Range-Sect:		Subdivision:	
Legal Book/Page:	**157-07**	Map Reference:	**7-D5 /**
Legal Lot:		Tract #:	
Legal Block:		School District:	**OCEANSIDE**
Market Area:		School District Name:	**OCEANSIDE**
Neighbor Code:		Munic/Township:	

Owner Transfer Information

Recording/Sale Date:	**02/19/1971 /**	Deed Type:	**DEED (REG)**
Sale Price:		1st Mtg Document #:	
Document #:	**31900**		

Last Market Sale Information

Recording/Sale Date:	**/**	1st Mtg Amount/Type:	**/**
Sale Price:		1st Mtg Int. Rate/Type:	**/**
Sale Type:		1st Mtg Document #:	
Document #:		2nd Mtg Amount/Type:	**/**
Deed Type:		2nd Mtg Int. Rate/Type:	**/**
Transfer Document #:		Price Per SqFt:	
New Construction:		Multi/Split Sale:	
Title Company:			
Lender:			
Seller Name:			

Prior Sale Information

Prior Rec/Sale Date:	**/**	Prior Lender:	
Prior Sale Price:		Prior 1st Mtg Amt/Type:	**/**
Prior Doc Number:		Prior 1st Mtg Rate/Type:	**/**
Prior Deed Type:			

Property Characteristics

Gross Area:		Parking Type:		Construction:	
Living Area:		Garage Area:		Heat Type:	
Tot Adj Area:		Garage Capacity:		Exterior wall:	
Above Grade:		Parking Spaces:		Porch Type:	
Total Rooms:		Basement Area:		Patio Type:	
Bedrooms:		Finish Bsmnt Area:		Pool:	
Bath(F/H):	**/**	Basement Type:		Air Cond:	
Year Built / Eff:	**/**	Roof Type:		Style:	
Fireplace:	**/**	Foundation:		Quality:	
# of Stories:		Roof Material:		Condition:	
Other Improvements:	**Building Permit**				

Site Information

Zoning:		Acres:	**7.53**	County Use:	
Lot Area:	**328,007**	Lot Width/Depth:	**x**	State Use:	
Land Use:		Res/Comm Units:	**/**	Water Type:	
Site Influence:				Sewer Type:	

Tax Information

Total Value:		Assessed Year:	**2021**	Property Tax:	
Land Value:		Improved %:		Tax Area:	**07030**
Improvement Value:		Tax Year:		Tax Exemption:	
Total Taxable Value:					

Property Detail Report

For Property Located At :
, OCEANSIDE, CA

Owner Information

Owner Name:	**OCEANSIDE UNIFIED SCHOOL DISTRICT**
Mailing Address:	
Vesting Codes:	**/ /**

Location Information

Legal Description:	**DOC71-31900 IN SWQ OF SEQ SEC 33-10-4W**		
County:	**SAN DIEGO, CA**	APN:	**122-190-19-00**
Census Tract / Block:	**/**	Alternate APN:	
Township-Range-Sect:		Subdivision:	
Legal Book/Page:	**122-19**	Map Reference:	**7-D5 /**
Legal Lot:		Tract #:	
Legal Block:		School District:	**OCEANSIDE**
Market Area:		School District Name:	**OCEANSIDE**
Neighbor Code:		Munic/Township:	

Owner Transfer Information

Recording/Sale Date:	**07/14/1970 /**	Deed Type:	**DEED (REG)**
Sale Price:		1st Mtg Document #:	
Document #:	**997**		

Last Market Sale Information

Recording/Sale Date:	**/**	1st Mtg Amount/Type:	**/**
Sale Price:		1st Mtg Int. Rate/Type:	**/**
Sale Type:		1st Mtg Document #:	
Document #:		2nd Mtg Amount/Type:	**/**
Deed Type:		2nd Mtg Int. Rate/Type:	**/**
Transfer Document #:		Price Per SqFt:	
New Construction:		Multi/Split Sale:	
Title Company:			
Lender:			
Seller Name:			

Prior Sale Information

Prior Rec/Sale Date:	**/**	Prior Lender:	
Prior Sale Price:		Prior 1st Mtg Amt/Type:	**/**
Prior Doc Number:		Prior 1st Mtg Rate/Type:	**/**
Prior Deed Type:			

Property Characteristics

Gross Area:		Parking Type:		Construction:	
Living Area:		Garage Area:		Heat Type:	
Tot Adj Area:		Garage Capacity:		Exterior wall:	
Above Grade:		Parking Spaces:		Porch Type:	
Total Rooms:		Basement Area:		Patio Type:	
Bedrooms:		Finish Bsmnt Area:		Pool:	
Bath(F/H):	**/**	Basement Type:		Air Cond:	
Year Built / Eff:	**/**	Roof Type:		Style:	
Fireplace:	**/**	Foundation:		Quality:	
# of Stories:		Roof Material:		Condition:	
Other Improvements:	**Building Permit**				

Site Information

Zoning:		Acres:	**6.66**	County Use:	
Lot Area:	**290,110**	Lot Width/Depth:	**x**	State Use:	
Land Use:		Res/Comm Units:	**/**	Water Type:	
Site Influence:				Sewer Type:	

Tax Information

Total Value:		Assessed Year:	**2021**	Property Tax:	
Land Value:		Improved %:		Tax Area:	**07030**
Improvement Value:		Tax Year:		Tax Exemption:	
Total Taxable Value:					

MyProperty Search Results

NO INFORMATION FOUND FOR THE SUBMITTED ADDRESS

No records were found within the EPA's Facility Registry System (FRS) list of address records for the provided search location. The No Records Certificate is a link to a printable document stating that no record(s) were found for the provided search location.

Search Criteria
Address Searched: 4991 Macario Dr
City Searched: Oceanside
State Searched: CA

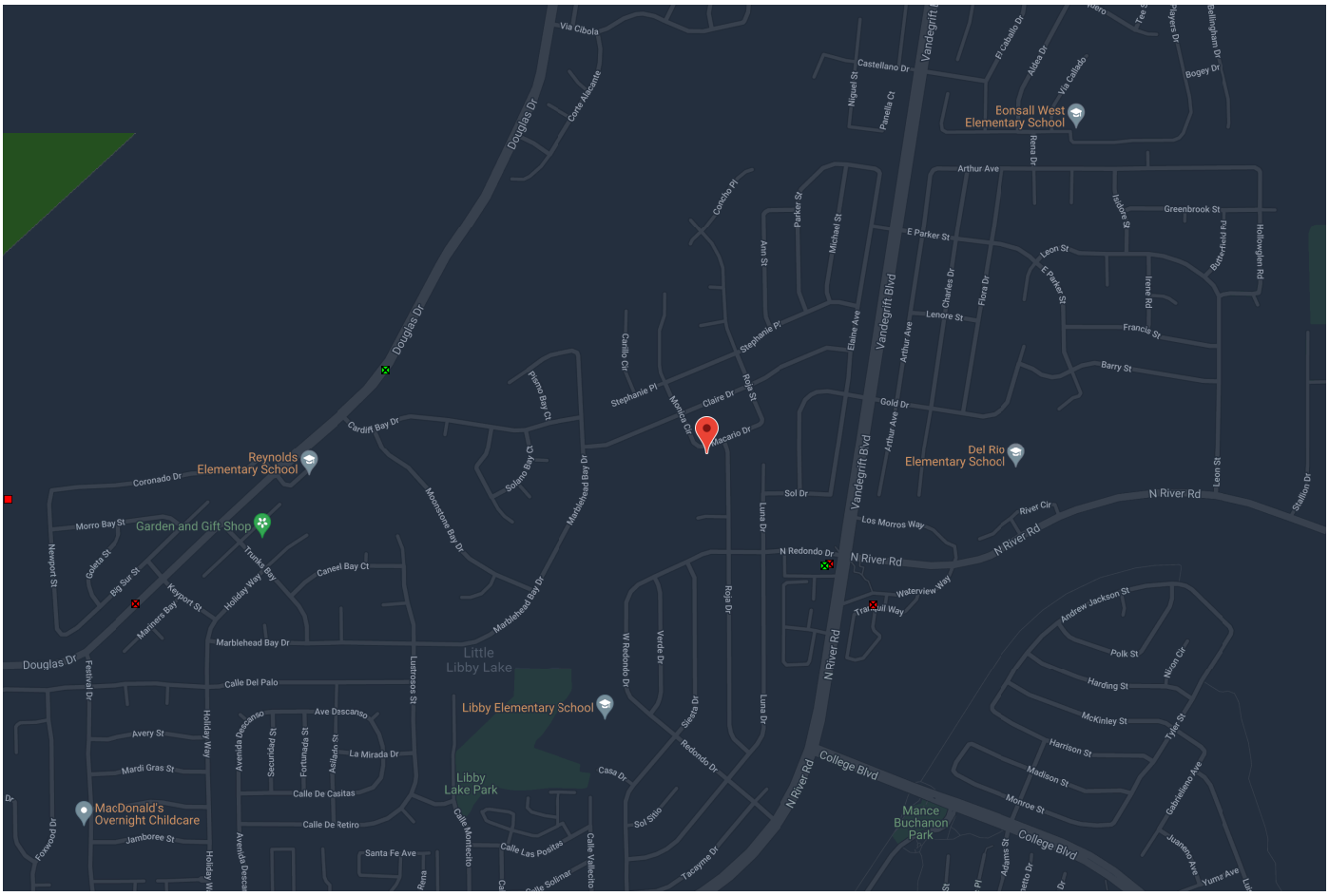
WARNING:
The address entered could not be matched exactly against the EPA's Facility Registry System (FRS) list of address records.
Please make sure you have entered the address correctly for the location you are interested in.

If you would like to utilize additional search tools to investigate areas of interest, please visit the Envirofacts or the Facility Registry System search tools.

Query executed on 10/08/2021 03:38 PM

Disclaimer: The MyProperty reports are provided solely for informational purposes. They do not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person. EPA maintains the application to enhance public access to environmental information. This service has continual data updates, and we will correct errors brought to our attention, as appropriate.

LAST UPDATED ON {MONTH DAY, YYYY}



LEGEND - CHOOSE MORE SITES

- LUST Cleanup Sites - REMOVE
- Cleanup Program Sites - REMOVE
- Military Cleanup Sites - REMOVE
- Military Privatized Sites - REMOVE
- Military UST Sites - REMOVE

Signifies a Closed Site

ACTIVE MAP COVERAGES:

- Military Bases - REMOVE

LIST SITES VISIBLE ON MAP

100 m Map data ©2021 Google

Sites Shown on Map: 7 Total Sites 1 Open Sites 6 Closed Sites 3 Sites w/Water Quality Data

Alyssa Berry

From: Gracie Ramirez <GRamirez@oceansideca.org>
Sent: Friday, October 8, 2021 3:23 PM
To: Alyssa Berry
Subject: RE: Public Records Request

Hi,

I was not able to find any record of storage tanks (above or underground) nor any records of hazardous materials storage or releases/spills.

Gracie Ramirez
Admin. Secretary to
Fire Chief Rick Robinson
Oceanside Fire Dept.
760-435-4081

From: Alyssa Berry <aberry@hillmanngroup.com>
Sent: Friday, October 8, 2021 12:54 PM
To: Fire Web <Fire_Web@oceansideca.org>
Subject: Public Records Request

Warning: External Source

Please see the attached request

Thank you,
Alyssa Berry
Environmental Technician

Hillmann Consulting, LLC
1745 W. Orangewood Ave., Suite 201
Orange, CA 92868
Tel: (714) 634-9500
Fax: (714) 634-9507

aberry@hillmanngroup.com
www.HillmannConsulting.com

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CONSULTING

October 8, 2021

City of Oceanside Fire Department
300 North Coast Highway
Oceanside, CA 92054
Phone: (760) 435-4100

RE: Underground Storage Tanks/Hazardous Materials Files:

APNs: 157-070-42 and 122-190-19
4991 Macario Drive
Oceanside, CA

Dear Sir/Madam:

I am currently conducting a Phase I Environmental Site Assessment (ESA) at the above referenced property and would like to know if you have any records of underground storage tanks (USTs) or hazardous materials on file for the above referenced property. If you locate any records for the property, I would like to either obtain copies or schedule a file review. My office number is (714) 634-9500.

Sincerely,

Alyssa Berry
Environmental Technician
Hillmann Environmental Group, LLC
aberry@hillmannconsutling.com

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

PACIFICA ELEMENTARY SCHOOL (37820031)

SIGN UP FOR EMAI

4991 MACARIO STREET
OCEANSIDE, CA 92057
SAN DIEGO COUNTY
SITE TYPE: SCHOOL

SUPERVISOR: SHAHIR HADI
OFFICE: SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELD OUTREACH
SCHOOL DISTRICT: OCEANSIDE U SCHOOL DIST
CENSUS TRACT: 6073018610
CALENVIROSCREEN PERCENTILE SCORE: 46-50%

Summary | Activities | Site/Facility Docs | Map | Related Sites | CalEnviroScreen

Site Information

CLEANUP STATUS
NO ACTION REQUIRED AS OF 11/5/2003

SITE TYPE: SCHOOL
NATIONAL PRIORITIES LIST: NO
ACRES: 4 ACRES
APN: NONE SPECIFIED
CLEANUP OVERSIGHT AGENCIES:
DTSC - LEAD AGENCY

SCHOOL DISTRICT: OCEANSIDE UNIFIED SCHOOL DISTRICT
ENVIROSTOR ID: 37820031
SITE CODE: 404407
SPECIAL PROGRAM:
FUNDING: SCHOOL DISTRICT
ASSEMBLY DISTRICT: 76
SENATE DISTRICT: 36

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
EDUCATIONAL SERVICES

POTENTIAL CONTAMINANTS OF CONCERN
NO CONTAMINANTS FOUND

POTENTIAL MEDIA AFFECTED
NO MEDIA AFFECTED

Site History

The site consists of a large irregularly-shaped parcel. The site is bounded to the south by Malaga Drive, on the West by Marblehead Bay Drive, on the north by Claire Drive, and on the e by Macario Drive. Construction of the school began as early as the 1970's. Prior to the construction of the school, the site was assumed to be vacant. Grading activities occurred at the s during the construction of the school. Adjacent properties include residential developments consisting of single-family housing. Southwest of the school site land is used for open space recreation.

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2.089844 seconds

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Jared Blumenfeld
Secretary for
Environmental Protection

Gavin Newsom
Governor

October 12, 2021

Alyssa Berry
Hillmann Consulting, LLC
aberry@hillmannconsulting.com

Public Records Request Number: 1-100821-03
Location(s): 4991 Macario Drive, Oceanside, CA

Dear Requestor:

On October 8, 2021 the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

Your request has been forwarded to our office in Cypress as they may have records. The phone numbers for the Cypress office are 714-484-5336 or 5337 and the email address is Cypressfileroom@dtsc.ca.gov.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 916-255-4159 or via email at PubReqAct@dtsc.ca.gov.

Sincerely,
Choua Her
Choua Her
Regional Records Coordinator

APPENDIX G

PROJECT PERSONNEL QUALIFICATIONS

HILLMANN CONSULTING

Shilpa Sunil

Environmental Project Manager

EDUCATION:

M.S. Environmental Engineering
University of California, Irvine

B.S. Environmental Engineering
University of Mysore (SJCE), Mysore, India

CERTIFICATIONS:

OSHA/ 10-hr Certification

CEQA Certification

YEARS OF EXPERIENCE:

With Hillmann: 1 years

Total: 9 years

PROFESSIONAL EXPERIENCE:

Ms. Sunil is an Environmental Professional with 9 years of experience in Environmental Engineering. Ms. Sunil is experienced in supporting several areas of Hillmann's practice including coordination of projects, project scope creation, investigatory projects, and corrective plan implementation.

As an Environmental Project Manager, Ms. Sunil has experience writing reports for site remediation for commercial property owners and preparing respective groundwater monitoring reports. She also writes Phase I and Phase II Environmental Site Assessments and Investigation reports as well as Supplemental Site Investigation Reports. She has experience working in a variety of buildings including multifamily residential properties, commercial office buildings, retail shopping centers, gasoline service stations, hotels, dry cleaning plants, auto repair shops, industrial buildings, aerospace manufacturers, plating facilities, and various manufacturing operations.

Representative experience includes:

Environmental Engineer, John L. Hunter and Associates, Inc: From 2015 to 2017, Ms. Sunil worked as an Environmental Engineer for John L. Hunter and Associates. Her responsibilities included reviewing Water Quality Management Plans, grading & drainage plans and conducting site verification inspections. She reviewed Standard Urban Storm Water Mitigation Plans; utilized SWRCB SMARTS database, assisted in Industrial Waste Plan review. She performed detailed review of grading plans, design specifications, hydro modifications analysis, and Storm Water Best Management Practice (BMP) calculations. She assisted with annual report preparation as part of NPDES permit requirements. Additionally, Ms. Sunil was responsible for reviewing work of private Professional Engineers for compliance with City standards and she assisted in determining engineering requirements for new developments.

Engineering Tech II, Orange County Public Works- OC Engineering: From July 2013 to December 2014, Ms. Sunil worked as an Engineer for Orange County Public Works. In this position, she reviewed permits requests, provided support of capital improvement and maintenance projects, and integrated environmental values into capital improvement projects by verifying the implementation of the federal National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA).

Staff Aid II, Orange County Public Works- OC Road, Capital Projects: From July 2012- July 2013, Ms. Sunil served as a Staff Aid for Orange County. In this position, she was responsible for the preparation of Water Quality Management Plans and Micro Station Drafting. She provided detailed review of grading plans, design specifications, hydro modification analysis, and Storm Water Best Management Practice Calculations. She assisted with annual report preparation as part of NPDES permit requirements.

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Staff Aid II, Orange County Road, Traffic Engineering: From March 2010 to July 2012, Ms. Sunil was a Staff Aid for the Orange County Road and Traffic Engineering team. She performed traffic investigation, assisted the traffic committee and aided in work order preparation. She analyzed traffic flows, parking issues, and intersection capacities. Ms. Sunil provided written and verbal responses to residents of unincorporated Orange County.

Assistant Engineer, RBF Consulting, Irvine, CA: From August 2007 to January 2010, Ms. Sunil was an Assistant Engineer at RBF Consulting where she conducted comprehensive evaluations of watersheds including National Pollution Discharge Elimination Systems (NPDES) compliance, incorporated BMPs, assisted public and private sector clients with NPDES compliance services, and prepared and reviewed Storm Water Pollution Prevention Plans and Water Quality Management Plans.

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J. Ryan Terwilliger

Operational Manager, West Coast

EDUCATION:

B.S. Environmental Science, University of Southern California, Los Angeles, CA

CERTIFICATION:

Cal-OSHA Certified Asbestos Consultant
CDPH Accredited Lead Inspector/Assessor/ Project Monitor

CA Certified Site Surveillance Technician

OSHA 40 - Hr HAZWOPER

YEARS OF EXPERIENCE:

With Hillmann: 4 years

Total: 8 years

PROFESSIONAL EXPERIENCE:

Mr. Terwilliger is responsible for business operations, fiscal management and field staff management for Hillmann's California Office. He also performs asbestos surveys and investigations to identify asbestos and lead materials associated with occupational hazards. He supervises work practices and controls in accordance with job specifications, current EPA, OSHA and State Regulations for Asbestos remediation projects in commercial, industrial and multi-family residential buildings. Mr. Terwilliger performs IAQ, mold and moisture investigations in commercial, industrial and residential facilities nationwide. He also performs awareness training for asbestos, lead and microbial agents. Mr. Terwilliger provides litigation support consultation.

Representative Experience Includes:

Tishman Speyer Properties, Various locations: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include environmental health and safety, industrial hygiene, phase I environmental site assessments, asbestos surveys, air monitoring, bid administration, O&M programs and indoor air quality programs on various commercial, industrial and multi-family residential properties. Mr. Terwilliger is an Environmental Scientist on this contract, conducting on-site environmental services including phase I site assessments and NPDES water quality testing.

Westfield – Environmental Program, Various locations: Since 2000, Hillmann has been providing an environmental program encompassing environmental health and safety, Phase I environmental site assessments, asbestos and lead surveys, air monitoring, bid administration and O&M programs, industrial hygiene and indoor air quality programs, and hazardous materials assessments on their mall properties throughout the county. Mr. Terwilliger is an Environmental Scientist on this contract performing industrial hygiene services that include indoor air quality monitoring, Phase I environmental site assessments, asbestos and lead surveys.

Brookfield Office Properties, Various sites, CA: Hillmann has been providing hazardous materials surveys, development abatement specifications, and managing the oversight activities during the abatement at various Brookfield owned sites throughout California. Mr. Terwilliger functions as a Project Manager for this contract.

California Department of Transportation, Central Valley and Northern CA: Hillmann has been performing asbestos and Lead-based Paint Surveys for the California Department of Transportation. Performed comprehensive asbestos containing materials and lead-based paint surveys of residential and commercial buildings that were slated for demolition and generated report of findings in order to aid the Department of Transportation (DOT) in facilitating the road improvement programs and building renovations throughout the

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Central Valley area. Also during the abatement of asbestos from DOT owned buildings, provided contractor oversight and air monitoring services for regulatory compliance.

Verizon, Various Sites, CA. Hillmann conducted hazardous materials surveys, development abatement specifications, and project monitoring during abatement at various Verizon owned sites throughout California. Mr. Terwilliger functioned as the Project Manager.

Public Storage, Los Angeles, CA: Hillman preformed comprehensive asbestos, lead-based paint and universal waste materials survey of commercial and industrial buildings throughout Southern California. Hazardous materials surveys were conducted prior to renovation for the storage units. Mr. Terwilliger developed abatement specifications and managed the abatement activities during the renovations of the buildings. He functioned as the Project Manager on this contract.

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CONSULTING

David H. Rutherford

Quality Management Director

EDUCATION:

B.S. Environmental Sciences, Cook College, New Brunswick, NJ

CERTIFICATIONS:

40-hr HAZWOPER 29 CFR 1910.120

Certified Hazardous Materials Manager 1992-2003

10-hr OSHA Construction Safety & Health

Construction Procedures, Materials and Costs – a ten-week course at Rutgers Center for Continuing Professional Development

YEARS OF EXPERIENCE:

With Hillmann: 31 years

Total: 31 years

PROFESSIONAL EXPERIENCE:

Mr. Rutherford has currently functions as Hillman's Quality Management Director and has served as the Director of Due Diligence as well. He has more than 30 years of experience in the environmental consulting industry, and over 26 years in managing and performing environmental property assessments including USEPA and NJDEP Preliminary Assessments.

As the Quality Management Director, Mr. Rutherford is responsible for overseeing the quality of all environmental and due diligence services across the company, including development of standard protocols, report content/templates, and account management strategies. He has managed large national accounts for real estate due diligence services including a desktop review service that handled nearly 500 properties per year. Mr. Rutherford is also the program manager for Hillmann's NJDOH approved "Indoor Environmental Health Assessment of Child Care and Educational Facilities."

Additionally, Mr. Rutherford performs and/or manages Phase II Environmental Site Assessments (ESAs), Underground Storage Tank (UST) investigations/closures, Property Condition Assessments (PCA), Construction Monitoring inspections, Asbestos surveys, Asbestos Abatement Project Monitoring services, Indoor Air Quality (IAQ) surveys, NPDES Discharge Monitoring, Community Right-to-Know surveys, and Environmental Risk Analysis for compliance with the Sarbanes-Oxley act.

Representative experience includes:

Tishman Speyer Properties, various locations nationwide: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include phase I ESAs, asbestos surveys, air monitoring, bid administration, O&M programs, industrial hygiene, and indoor air quality programs. Mr. Rutherford is a Project Manager on this contract. This contract is ongoing.

Citigroup, various locations nationwide: Since 1995, Hillmann has provided the complete environmental program including phase I ESAs, asbestos and lead surveys, air monitoring, bid administration, O&M programs, industrial hygiene, indoor air quality programs, geology services, radon testing, and hazardous materials assessments. Mr. Rutherford is an Account Manager on this contract. This project is ongoing.

TD Bank, N.A., various locations: Hillmann has performed phase I ESAs at several properties on behalf of TD Bank, N.A. Mr. Rutherford manages the group that conducts the assessments for this contract, which is ongoing.

HSBC Bank, various locations nationwide/NYC Metro: Hillmann is providing the complete environmental program including phase I ESAs, asbestos surveys, air monitoring, bid administration, O&M programs, industrial hygiene, and indoor air quality programs. Mr. Rutherford is a Project Manager on this contract, which is ongoing.

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Peapack Gladstone Bank, various locations in NY, NJ, and PA: Hillmann has performed phase I ESAs at numerous properties on behalf of Peapack Gladstone Bank since 2013. Mr. Rutherford manages the staff that conducts the assessments for this contract, which is ongoing.

The Davis Companies, Norwalk, CT: On behalf of The Davis Companies, Hillmann provided an Advisory Report of analysis and opinion regarding the potential electromagnetic fields (EMF) health risks that may be associated with a newly constructed sub-station on an adjacent property.

Multi-Family Portfolio, New York, NY: Hillmann conducted environmental due diligence services and construction plan and cost review for a rehabilitation project of 45 low income multi-family apartment buildings in upper Manhattan. Mr. Rutherford coordinated and oversaw the completion of 45 phase I ESA reports and 5 phase II site investigations.

MBD Community Housing Corporation, Bronx, NY: Mr. Rutherford's staff has conducted environmental due diligence services for various multi-family apartment buildings located throughout New York City; including a portfolio of 11 buildings in Bronx, NY. Various projects have been completed between 2009 and 2016.

International Portfolio of Industrial Properties: Completed in 2012, Mr. Rutherford was the Project Manager for a multi-level environmental due diligence assessment for a portfolio of 113 light industrial properties located throughout the United States and Mexico.

Confidential client, various locations nationwide: Between 2008 and 2013, as a Project Manager, Mr. Rutherford was responsible for conducting multiple Risk Assessments. The purpose for conducting the assessments was to project a cost estimate for potential environmental liabilities associated with over 3,700 former drug store facilities in compliance with the Sarbanes-Oxley act.

Appendix H
Drainage Report

DRAINAGE STUDY
for
PACIFICA ELEMENTARY SCHOOL

City of Oceanside, California

Prepared for:

Meritage Homes
Johanna Crooker
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

W.O. 3087-0010

Prepared: June 13, 2022
Revised: November 15, 2022
March 22, 2023

Prepared by:

Hunsaker & Associates
9707 Waples St.
San Diego, CA 92121
(858) 558-4500

Alisa S. Vialpando 03/22/2023

Alisa S. Vialpando, RCE # 47945
Date President

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1. Introduction

1.1. Scope of Work

The purpose of this study is to provide hydrology calculations in support of a proposed residential townhome development in the City of Oceanside, California. This report will quantify runoff for the 100-year frequency storm event and recommend storm drain infrastructure needed to convey stormwater through the site safely. Treatment of stormwater runoff from the site has been addressed in a separate report entitled "Stormwater Quality Management Plan for Pacifica Elementary School" prepared by Hunsaker & Associates, San Diego.

1.2. Existing Condition

The Pacifica Elementary School property is a 14.55-acre site located in the City of Oceanside, CA, west of Roja Drive and Macario Drive intersection. The site is an old school development with no buildings, and it is partially occupied with a parking lot, driveways, and large concrete pad while the western portion consists of vacant land. Refer to the project vicinity map located in appendix 1.

The property is accessible from Macario Drive by an existing paved driveway and from Roja Drive by Malaga drive, an existing paved road within the adjacent property southeast of the project. Residential developments bound the property to the north, south, west and east. An existing drainage channel that runs in a north-south direction borders the western portion of the site.

The studied drainage area is approximately 17.9 ac with 28% total imperviousness, including 3.35-ac offsite area. 0.65 acres of the offsite area is located southeast of the property, and drains through the project, to commingle with the onsite flows. The comingled runoff surface flows westerly towards the existing natural channel, where it combines with the runoff from the western offsite area. Then, the total flow drains southerly in the channel to the analyzed discharge point (at Node 108).

Onsite runoff from the northeastern portion of the site drains in a southwest direction to be captured via existing grate inlets and routed to the existing 24" stormdrain (at Node 104). The existing 24" stormdrain runs across the site southwesterly carrying the flow from node 104 with the bypassed offsite flows (coming from Macario Drive) to discharge into the existing channel (at Node 106). Runoff from the rest of the site is conveyed via surface flow in a southwest direction to discharge into the said channel and reach the analyzed discharge point (Node 108).

See **Appendix 4** for calculations of existing peak runoff from the site.

According to the FEMA Flood Insurance Rate Map (FIRM) for this site, the project is located in an unshaded Zone X, which is defined as "Areas determined to be outside the 500-year floodplain". Refer to the FIRMette Map in **Appendix 1**.

Per NRCS Soil report, the site consists of 33% Hydrologic Soil Group “B” and 67% of Hydrologic Soil Group “D”. Refer to **Appendix 2** for NRCS soils information.

The runoff coefficient for each subarea was calculated based on soil type and impervious percentage using the formula from San Diego County Hydrology Manual Section 3.1.2

C= 0.90 x (% Impervious) + Cp x (1 - % Impervious)

Cp = Pervious Coefficient Runoff value for the soil type (per San Diego County Hydrology Manual Table 3.1)
Cp Soil B = 0.25, Cp Soil D= 0.35
Cp-Subarea = (Soil type B% * 0.25) + (Soil Type D%* 0.35)

Please refer to existing conditions AES Input Data spreadsheet in appendix 4 for each subarea runoff factor.

Table 1 below summarizes the 100-year existing condition peak flow at the downstream project boundary.

TABLE 1 - Summary of Existing Flows

Exhibit	Node Number on Exhibit	Discharge Location	Drainage Area (ac)	C Area-Average Runoff Coefficient	Tc (min)	Q100-Year Peak Flow (cfs)
1	108	Southwest of the site	17.92	0.479	29.95	19.57

1.3. Proposed Condition

The proposed project is a 164-unit townhome development consisting of multi-family structures, driveways, access roads, sidewalks, landscaped areas, and an open space dedicated for biofiltration/detention basin facility (BF-1-1). The infrastructure will consist of streets and associated utilities including dual storm drain system (pipes, inlets, catch basins, brow ditches and cleanouts). One of the dual systems is necessary to collect and convey the onsite 100-year runoff through the project area to the proposed biofiltration basin. The second system (bypass storm drain system) is to replace the existing 24” storm drain that runs through the site and conveys the offsite flows and part of the onsite flows to the existing western channel. The existing 24” storm drain will be removed.

Onsite runoff will be conveyed via street curb and gutter system, to be captured by proposed inlets and routed via proposed storm drain system to the previously mentioned biofiltration basin BF-1-1 (Node 1). The biofiltration basin will treat onsite and

commingled offsite runoff, attenuate peak flows and aid in addressing flow control hydromodification requirements.

Runoff from 0.80 ac of Pvt Drive “A”, Building 1, half of Building 2, and half of Building 3 will drain towards Macario Drive, where it will be captured by the proposed inlet west of the intersection of Pvt Drive “A” and Macario Drive. The captured flow will be routed southwesterly via 24” proposed bypass storm drain system to ultimately discharge into the existing channel west of the site, similarly to existing conditions. A proprietary biofiltration BMP (Filterra unit or equivalent) is proposed to address the water quality requirements for the said area. For additional discussion on the proposed water quality features of the site, refer to the Stormwater Quality Management Plan for Pacifica Site (March 2023) prepared by Hunsaker & Associates San Diego, Inc.

Runoff from the northern and most of the southern undisturbed slopes will be routed via proposed brow ditches to enter proposed bypassed storm drain system via catch basins. The proposed bypass storm drain system will convey the said flows with the offsite flows (coming from Macario Drive) to the respected discharge point southwest of the site, where it comingles with the onsite treated flows (at Node 2) and continues southerly to the analyzed discharge point (at Node 3). See **Appendix 4** for calculations of proposed condition run-off.

The total studied drainage area is 17.92 ac with 40% imperviousness. The runoff coefficient for each subarea was calculated based on soil type and impervious percentage using the formula from San Diego County Hydrology Manual Section 3.1.2

C= 0.90 x (% Impervious) + Cp x (1 - % Impervious)

Cp = Pervious Coefficient Runoff value for the soil type (per San Diego County Hydrology Manual Table 3.1)
Cp Soil B = 0.25, Cp Soil D= 0.35
Cp-Subarea = (Soil type B% * 0.25) + (Soil Type D%* 0.35)

Please refer to proposed conditions AES Input Data spreadsheet in appendix 4 for each subarea runoff factor.

Table 2 below summarizes the unmitigated 100-year proposed condition peak flow at the downstream project boundary.

TABLE 2 - Summary of Proposed Unmitigated Flows

Exhibit	Node Number on Exhibit	Discharge Location	Drainage Area (ac)	C Area-Average Runoff Coefficient	Tc (min)	Q100-Year Peak Flow (cfs)
2	3	Southwest of the site	17.92	0.5528	10.95	42.97

Due to the increased flow associated with the development of *Pacifica Site project*, peak flow attenuation will be achieved by the proposed biofiltration\detention basin BF-1-1. The riser within the basin has been sized and designed to include orifices along its height. Sizes and heights of orifices were determined to achieve outlet flow less than the pre-development flow shown on Table 1 above. Please refer to Chapter 2.2 for methodology and Appendix 5 for detention Analysis. The resultant discharge at Node 1 will continue westerly to comingle with the bypassed flow at Node 2 and flow southerly within the channel to Node 3, and ultimately discharges into San Luis Rey Rive San Luis Rey River, Lower (west of Interstate 15).

Since this project is subject to comply with hydromodification requirements, the design of the basin has been coordinated with those calculations, which are part of the *SWQMP for Pacifica Site.*

.

Table-3 below summarizes the Q100 Mitigated flow at Node 1.

TABLE 3 - Summary of Mitigated Developed Flows

Exhibit	Node Number on Exhibit	Discharge Location	Drainage Area (ac)	C Area-Average Runoff Coefficient	Tc (min)	Q100-Year Peak Flow (cfs)
2	3	Southwest of the site	17.92	0.5528	10.87	18.92

2. Methodology

2.1 Hydrology

2-1 Modified Rational Method Hydrologic Analysis

Computer Software Package – AES-2015

Design Storm - 100- year return interval

Land Use – Medium-High Density Residential

Soil Type – Per the NRCS Web Soil Survey, the site soil consists of Hydrologic soil group B and D.

Runoff Coefficient - In accordance with the County of San Diego standards, runoff coefficient for each subarea was calculated based on soil type and impervious percentage using the formula from San Diego County Hydrology Manual Section 3.1.2
C= 0.90 x (% Impervious) + Cp x (1 - % Impervious)

Cp = Pervious Coefficient Runoff value for the soil type (per San Diego County Hydrology Manual Table 3.1)
Cp Soil B = 0.25, Cp Soil D= 0.35
Cp-Subarea = (Soil type B% * 0.25) + (Soil Type D%* 0.35)

Rainfall Intensity- The rainfall intensity is determined per the San Diego County Hydrology Manual based on 6-hour precipitation amounts and calculated time of concentrations. Six-hour precipitations are taken from the San Diego County Hydrology Manual isopluvials. P6=2.73 inch

Method of Analysis – The Rational Method is the most widely used hydrologic model for estimating peak runoff rates. Applied to small urban and semi-urban areas with drainage areas less than 1.0 square miles, the Rational Method relates storm rainfall intensity, a runoff coefficient, and drainage area to peak runoff rate. This relationship is expressed by the equation:

Q = CIA, where:

Q = The peak runoff rate in cubic feet per second at the point of analysis.

C = A runoff coefficient representing the area - averaged ratio of runoff to rainfall intensity.

I = The time-averaged rainfall intensity in inches per hour corresponding to the time of concentration.

A = The drainage basin area in acres.

To perform a node-link study, the total watershed area is divided into subareas, which discharge at designated nodes.

The procedure for the subarea summation model is as follows:

(1) Subdivide the watershed into subareas with the initial subarea being less than 10 acres in size (generally one lot will do), and subsequent subareas gradually increasing in size. Assign upstream and downstream nodal numbers to each subarea to correlate calculations to the watershed map.

(2) Estimate an initial T_c by using the appropriate nomograph or overland flow velocity estimation.

(3) Using the initial T_c, determine the corresponding values of I. Then Q = CIA.

(4) Using Q, estimate the travel time between this node and the next by Manning's equation as applied to the particular channel or conduit linking the two nodes. Then, repeat the calculation for Q based on the revised intensity (which is a function of the revised time of concentration)

The nodes are joined together by links, which may be street gutter flows, drainage swales, drainage ditches, pipe flow, or various channel flows. The AES-2003 computer subarea menu is as follows:

SUBAREA HYDROLOGIC PROCESS

1. Confluence analysis at node.
2. Initial subarea analysis (including time of concentration calculation).
3. Pipe flow travel time (computer estimated).
4. Pipe flow travel time (user specified).
5. Trapezoidal channel travel time.
6. Street flow analysis through subarea.
7. User - specified information at node.
8. Addition of subarea runoff to main line.
9. V-gutter flow through area.
10. Copy main stream data to memory bank
11. Confluence main stream data with a memory bank
12. Clear a memory bank

At the confluence point of two or more basins, the following procedure is used to combine peak flow rates to account for differences in the basin's times of concentration. This adjustment is based on the assumption that each basin's hydrographs are triangular in shape.

(1). If the collection streams have the same times of concentration, then the Q values are directly summed,

$Q_p = Q_a + Q_b$; $T_p = T_a = T_b$

(2). If the collection streams have different times of concentration, the smaller of the tributary Q values may be adjusted as follows:

(i). The most frequent case is where the collection stream with the longer time of concentration has the larger Q. The smaller Q value is adjusted by the ratio of rainfall intensities.

$Q_p = Q_a + Q_b \ (I_a/I_b)$; $T_p = T_a$

(ii). In some cases, the collection stream with the shorter time of concentration has the larger Q. Then the smaller Q is adjusted by a ratio of the T values.

$Q_p = Q_b + Q_a \ (T_b/T_a)$; $T_p = T_b$

Underground storm drains are analyzed in a similar way. Flow data obtained from the surface model for inlets and collection points are input into the nodes representing those structures. Design grades and lengths are used to compute the capacity of the storm drains and to model the downstream travel times.

2-2 Detention Analysis

In order to provide adequate flood control, increases in peak flow rates at the outfall location for this site were mitigated using the proposed biofiltration basin.

The hydrology calculations discussed above provide peak flowrates for the vaults' inflow, which are entered into a separate program called RickRatHydro. The RickratHydro was used to produce an inflow hydrograph for the project drainage area to the biofiltration basin, based on the area, time of concentration, P6 value, runoff coefficient, and peak flow rate.

Mitigation within the biofiltration basin was modeled using SWMM 5.1. The Hydrograph that was generated from RickRatHydro was used as an input data for the inflows to the storage unit in the SWMM model. The riser was modeled using stage discharge table (Rating Curve in SWMM), and the volume was modeled using the storage stage table (Storage Curve), which represents the storage provided within the biofiltration basin depth above excluding the water quality ponding depth.

The results from the SWMM model were used as input data (code 7) in the AES proposed condition model at the discharge location from the proposed biofiltration basin (Node 1), to generate the AES model for proposed mitigated flows.

3. Results

Conveyance of Q100 runoff flows through the proposed site required dual storm drain system. One of the dual systems is 18" storm drain system proposed to route flows (onsite and comingled offsite) to the biofiltration basin to address water quality, hydromodification and peak flow attenuation; while the second system is 24" bypassed storm drain to replace the existing 24" storm drain that runs through the site and conveys the offsite flows and part of the onsite flows to the existing western channel.

Storm drain system and hydraulic calculations will be conducted as part of the final engineering drainage study.

One biofiltration/ detention basin was included in the design of the site to address hydromodification, peak flow attenuation, and water quality requirements. A proprietary biofiltration BMP is proposed at Macario Drive to address water quality requirements for the small northern portion of Pvt Drive "A" that drains away from the biofiltration basin. Per the hydrologic and detention analysis conducted as part of this study, the detention analysis for the basin is included in Appendix 5 of this report. The table below summarizes the flow reductions at the discharge location.

The flow from the site is attenuated to make sure that the post-developed flows will not exceed the capacity of the existing downstream drainage facilities (post development flows compared to the pre-development flows at the point of compliance southwest corner of the project (POC-1/ Node 3). See table 4 below

TABLE 4 – Pre-development Condition vs. Post-development Condition

Dis. Location	Pre-Area (ac)	Post-Area (ac)	Pre-: 100-Year Peak Flow (cfs)	Post-: 100-Year Unmit. Peak Flow (cfs)	Post-: 100-Year Mit. Peak Flow (cfs)	TC Pre (min)	TC Post Unmit (min)	TC Post Mit (min)	Vel. Pre (ft/s)	Vel. Post Unmit (ft/s)	Vel. Post Mit. (ft/s)	Q100 Flow Difference (cfs)
southwest corner	17.92	17.92	19.57	42.97	18.92	29.95	10.95	10.87	1.31	2.60	1.99	-0.65

-Dis. Location: Discharge Location
-Vel. (ft/s): Velocity (feet/second)
-Pre : Pre Developed Conditions
-Post. Unmit.: Post Developed Unmitigated Conditions
-Post. Mit.: Post Developed Mitigated Conditions

4. Conclusions

The proposed development of Pacifica Site can be roughly graded and improved with storm drain to accommodate the ultimate expected flows from development. In addition, with the proposed drainage facilities such as curb inlets, storm drain, water quality, flow control and detention basin, runoff can be mitigated to accepted San Diego County and City of Oceanside standards.

The proposed project will not substantially alter the existing drainage pattern of the site. There will be a decrease in the peak discharge from the site. Therefore, the proposed project will not impact downstream properties, drainage facilities or Libby Lake, the nearest receiving water.

References

San Diego County Hydrology Manual, County of San Diego Department of Public Works Flood Control Division, June 2003.

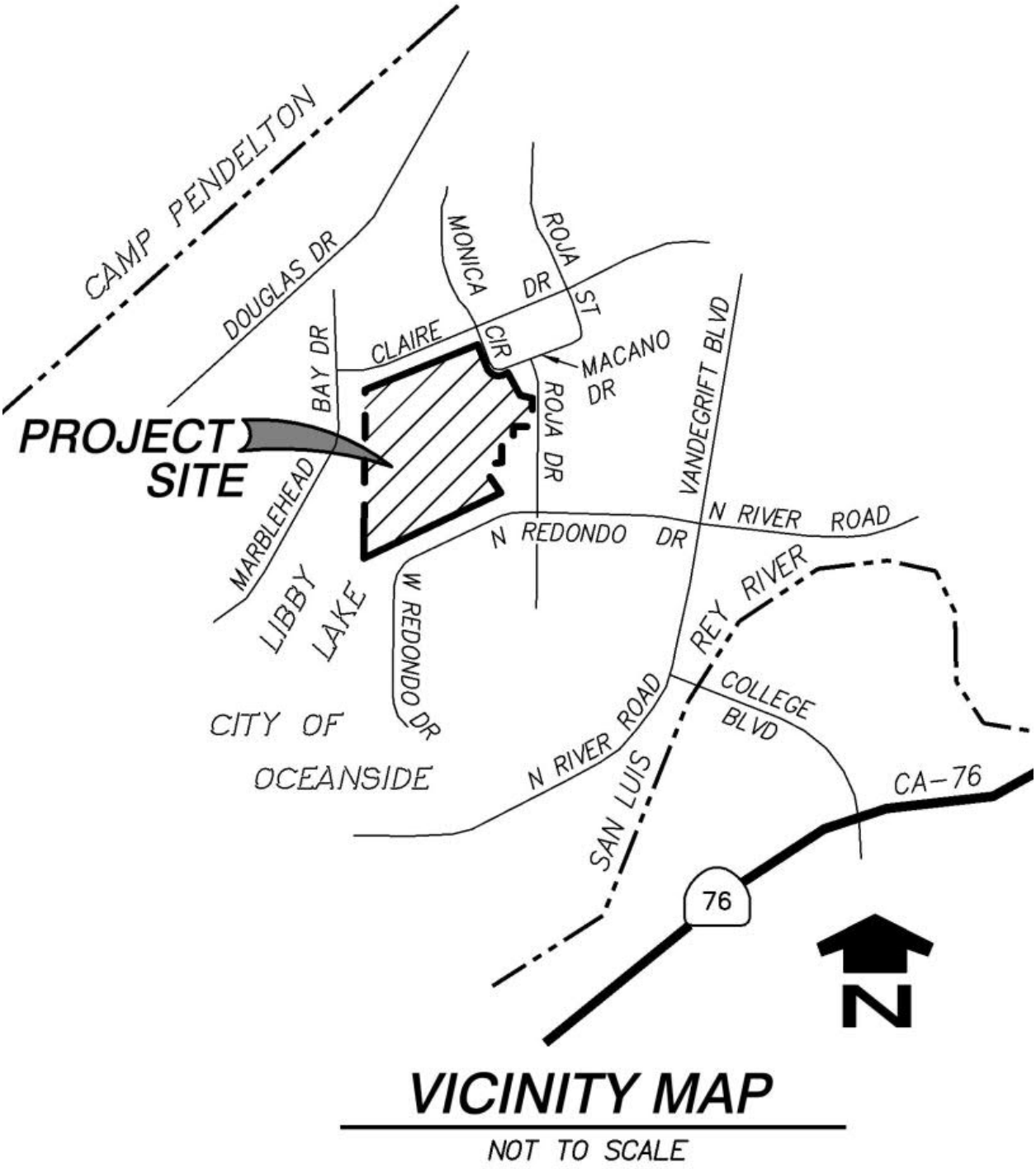
San Diego County Hydraulic Design Manual, County of San Diego Department of Public Works Flood Control Division, September 2014

San Diego County Drainage Design Manual, County of San Diego Department of Public Works Flood Control Division, July 2005

Stormwater Quality Management Plan for Pacifica Site, Hunsaker & Associates San Diego, Inc., March 2023.

Appendix 1 – Vicinity Map and FIRM Map

Vicinity Map



National Flood Hazard Layer FIRMette

FEMA

117°18'28"W 33°15'41"N

117°17'51"W 33°15'11"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/12/2022 at 4:59 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix 2 - Soils Information

Map Scale: 1:2,140 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
Survey Area Data: Version 16, Sep 13, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 24, 2020—Feb 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
GoA	Grangeville fine sandy loam, 0 to 2 percent slopes	B	4.5	30.1%
LeC	Las Flores loamy fine sand, 2 to 9 percent slopes	D	0.7	5.0%
LeC2	Las Flores loamy fine sand, 5 to 9 percent slopes, eroded	D	0.9	5.8%
LeE2	Las Flores loamy fine sand, 15 to 30 percent slopes, eroded	D	8.9	59.2%
Totals for Area of Interest			**15.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix 3 – Runoff Coefficient Determination

- The storm frequency of peak discharges is the same as that of I for the given T_c.

- The fraction of rainfall that becomes runoff (or the runoff coefficient, C) is independent of I or precipitation zone number (PZN) condition (PZN Condition is discussed in Section 4.1.2.4).

- The peak rate of runoff is the only information produced by using the RM.

3.1.2 Runoff Coefficient

Table 3-1 lists the estimated runoff coefficients for urban areas. The concepts related to the runoff coefficient were evaluated in a report entitled *Evaluation, Rational Method "C" Values* (Hill, 2002) that was reviewed by the Hydrology Manual Committee. The Report is available at San Diego County Department of Public Works, Flood Control Section and on the San Diego County Department of Public Works web page.

The runoff coefficients are based on land use and soil type. Soil type can be determined from the soil type map provided in Appendix A. An appropriate runoff coefficient (C) for each type of land use in the subarea should be selected from this table and multiplied by the percentage of the total area (A) included in that class. The sum of the products for all land uses is the weighted runoff coefficient (Σ[CA]). Good engineering judgment should be used when applying the values presented in Table 3-1, as adjustments to these values may be appropriate based on site-specific characteristics. In any event, the impervious percentage (% Impervious) as given in the table, for any area, shall govern the selected value for C. The runoff coefficient can also be calculated for an area based on soil type and impervious percentage using the following formula:

$$C = 0.90 \times (\% \text{ Impervious}) + C_p \times (1 - \% \text{ Impervious})$$

Where: C_p = Pervious Coefficient Runoff Value for the soil type (shown in Table 3-1 as Undisturbed Natural Terrain/Permanent Open Space, 0% Impervious). Soil type can be determined from the soil type map provided in Appendix A.

The values in Table 3-1 are typical for most urban areas. However, if the basin contains rural or agricultural land use, parks, golf courses, or other types of nonurban land use that are expected to be permanent, the appropriate value should be selected based upon the soil and cover and approved by the local agency.

Table 3-1
RUNOFF COEFFICIENTS FOR URBAN AREAS

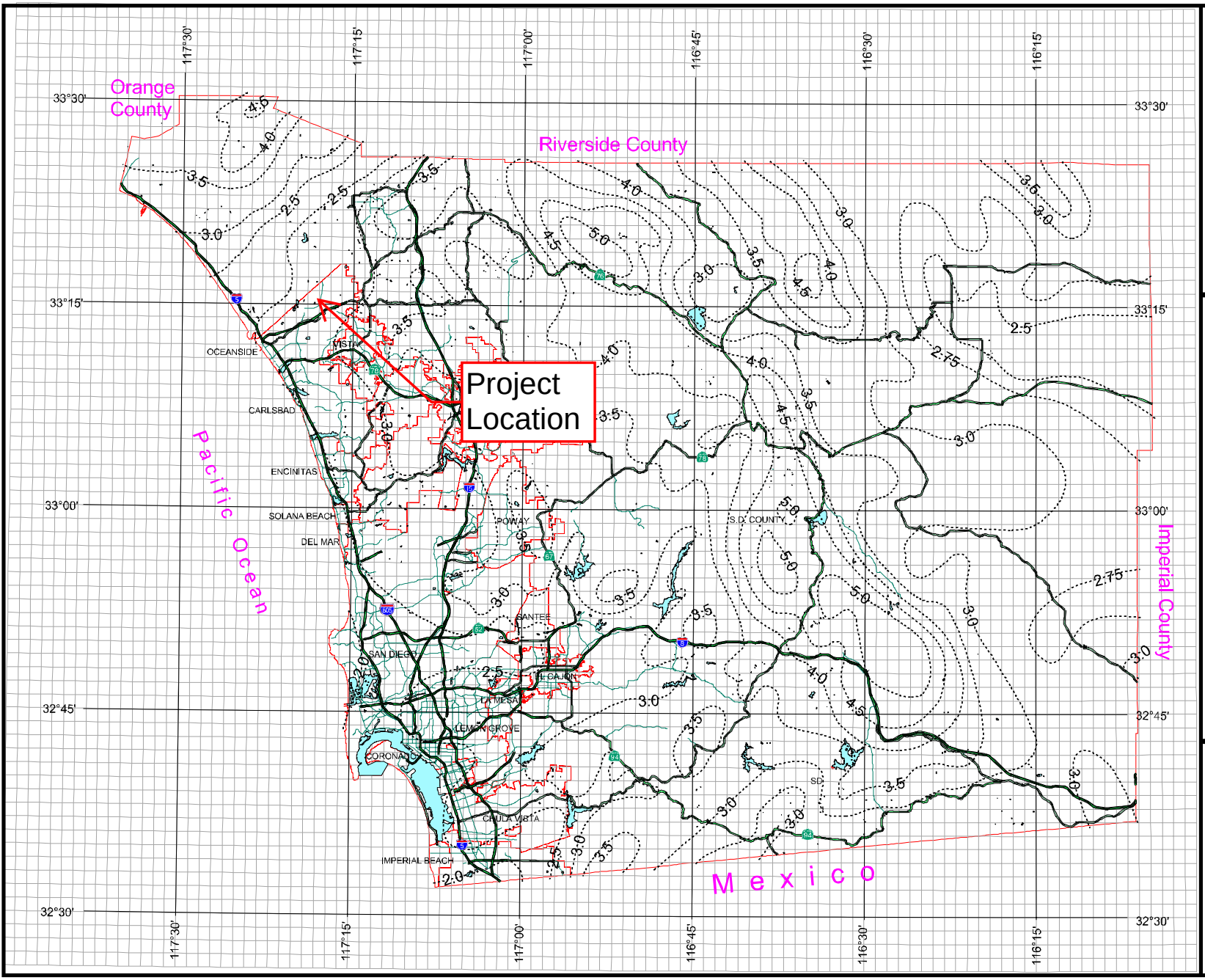
Land Use		Runoff Coefficient "C"				
			Soil Type			
NRCS Elements	County Elements	% IMPER.	A	B	C	D
Undisturbed Natural Terrain (Natural)	Permanent Open Space	0*	0.20	0.25	0.30	0.35
Low Density Residential (LDR)	Residential, 1.0 DU/A or less	10	0.27	0.32	0.36	0.41
Low Density Residential (LDR)	Residential, 2.0 DU/A or less	20	0.34	0.38	0.42	0.46
Low Density Residential (LDR)	Residential, 2.9 DU/A or less	25	0.38	0.41	0.45	0.49
Medium Density Residential (MDR)	Residential, 4.3 DU/A or less	30	0.41	0.45	0.48	0.52
Medium Density Residential (MDR)	Residential, 7.3 DU/A or less	40	0.48	0.51	0.54	0.57
Medium Density Residential (MDR)	Residential, 10.9 DU/A or less	45	0.52	0.54	0.57	0.60
Medium Density Residential (MDR)	Residential, 14.5 DU/A or less	50	0.55	0.58	0.60	0.63
High Density Residential (HDR)	Residential, 24.0 DU/A or less	65	0.66	0.67	0.69	0.71
High Density Residential (HDR)	Residential, 43.0 DU/A or less	80	0.76	0.77	0.78	0.79
Commercial/Industrial (N. Com)	Neighborhood Commercial	80	0.76	0.77	0.78	0.79
Commercial/Industrial (G. Com)	General Commercial	85	0.80	0.80	0.81	0.82
Commercial/Industrial (O.P. Com)	Office Professional/Commercial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (Limited I.)	Limited Industrial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (General I.)	General Industrial	95	0.87	0.87	0.87	0.87

*The values associated with 0% impervious may be used for direct calculation of the runoff coefficient as described in Section 3.1.2 (representing the pervious runoff coefficient, Cp, for the soil type), or for areas that will remain undisturbed in perpetuity. Justification must be given that the area will remain natural forever (e.g., the area is located in Cleveland National Forest).
DU/A = dwelling units per acre
NRCS = National Resources Conservation Service

Appendix 4 –**Design Rainfall Determination**

County of San Diego Hydrology Manual

Rainfall Isopluvials



100 Year Rainfall Event - 6 Hours

Isopluvial (inches)

P-6 = 2.73 in.

DPW GIS
Department of Public Works
Geographic Information Services

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3 0 3 Miles

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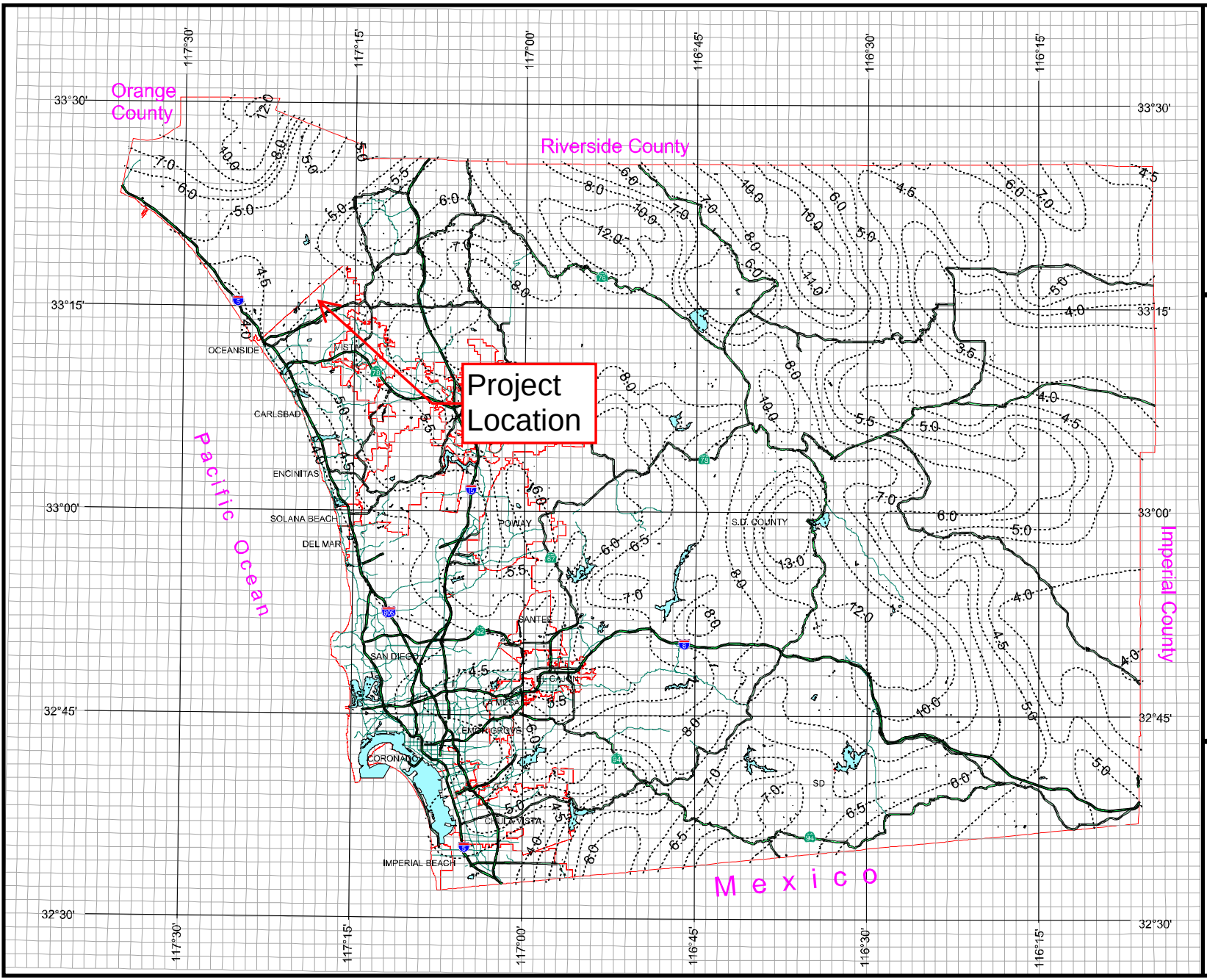
County of San Diego Hydrology Manual

Rainfall Isopluvials



100 Year Rainfall Event - 24 Hours

Isopluvial (inches)

P-6 = 4.92 in.

DPW GIS
Department of Public Works
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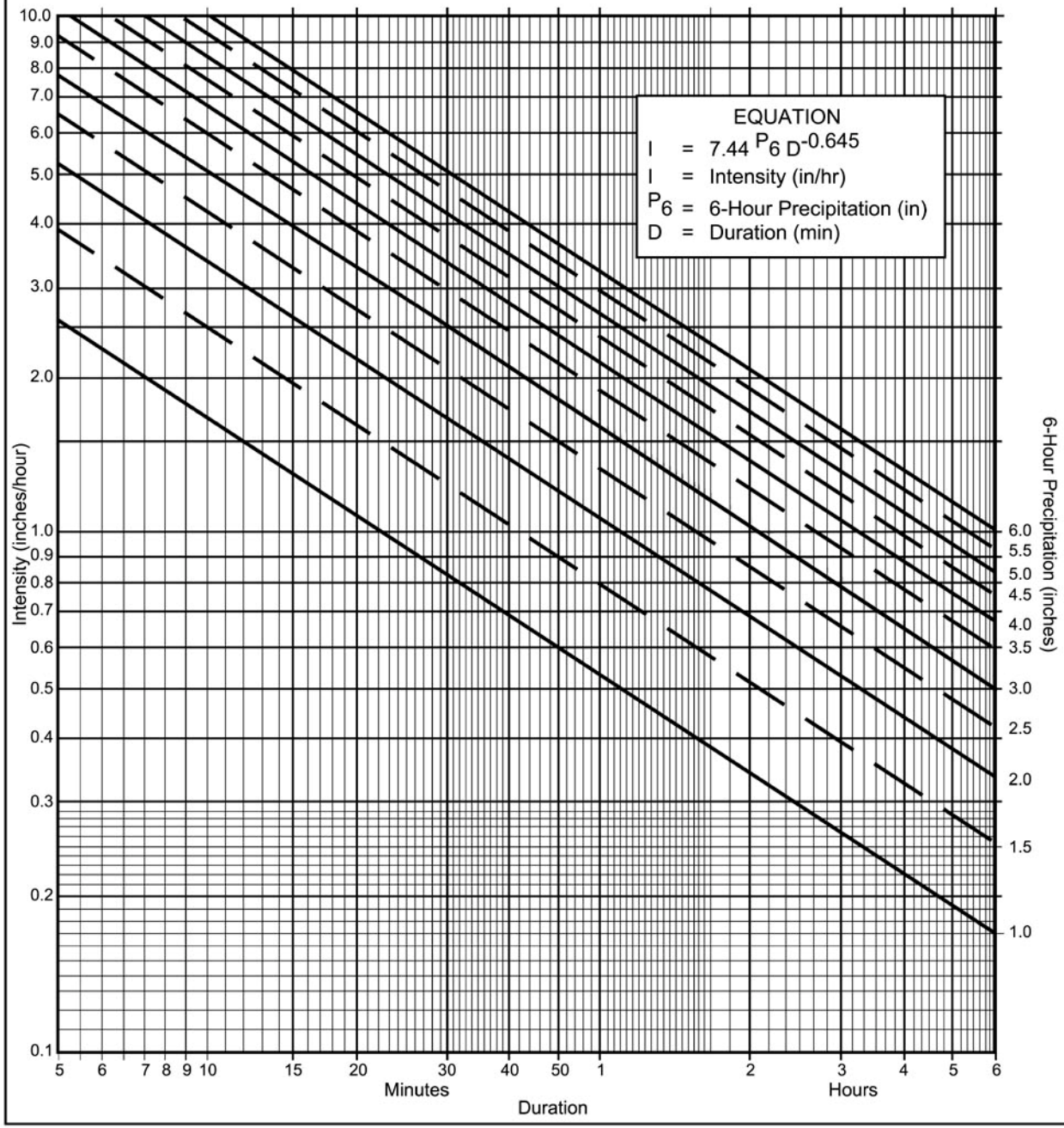


Directions for Application:

(1) From precipitation maps determine 6 hr and 24 hr amounts for the selected frequency. These maps are included in the County Hydrology Manual (10, 50, and 100 yr maps included in the Design and Procedure Manual).

(2) Adjust 6 hr precipitation (if necessary) so that it is within the range of 45% to 65% of the 24 hr precipitation (not applicaple to Desert).

(3) Plot 6 hr precipitation on the right side of the chart.

(4) Draw a line through the point parallel to the plotted lines.

(5) This line is the intensity-duration curve for the location being analyzed.

Application Form:

(a) Selected frequency _____ year

(b) P_6 = 2.73 in., P_{24} = 4.92, $\frac{P_6}{P_{24}} = \frac{2.73}{4.92}$ = %(2) 55%

(c) Adjusted P_6(2) = 2.73 in.

(d) t_x = _____ min.

(e) I = _____ in./hr.

Note: This chart replaces the Intensity-Duration-Frequency curves used since 1965.

P6	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Duration	I	I	I	I	I	I	I	I	I	I	I
5	2.63	3.95	5.27	6.59	7.90	9.22	10.54	11.86	13.17	14.49	15.81
7	2.12	3.18	4.24	5.30	6.36	7.42	8.48	9.54	10.60	11.66	12.72
10	1.68	2.53	3.37	4.21	5.05	5.90	6.74	7.58	8.42	9.27	10.11
15	1.30	1.95	2.59	3.24	3.89	4.54	5.19	5.84	6.49	7.13	7.78
20	1.08	1.62	2.15	2.69	3.23	3.77	4.31	4.85	5.39	5.93	6.46
25	0.93	1.40	1.87	2.33	2.80	3.27	3.73	4.20	4.67	5.13	5.60
30	0.83	1.24	1.66	2.07	2.49	2.90	3.32	3.73	4.15	4.56	4.98
40	0.69	1.03	1.38	1.72	2.07	2.41	2.76	3.10	3.45	3.79	4.13
50	0.60	0.90	1.19	1.49	1.79	2.09	2.39	2.69	2.98	3.28	3.58
60	0.53	0.80	1.06	1.33	1.59	1.86	2.12	2.39	2.65	2.92	3.18
90	0.41	0.61	0.82	1.02	1.23	1.43	1.63	1.84	2.04	2.25	2.45
120	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.53	1.70	1.87	2.04
150	0.29	0.44	0.59	0.73	0.88	1.03	1.18	1.32	1.47	1.62	1.76
180	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.18	1.31	1.44	1.57
240	0.22	0.33	0.43	0.54	0.65	0.76	0.87	0.98	1.08	1.19	1.30
300	0.19	0.28	0.38	0.47	0.56	0.66	0.75	0.85	0.94	1.03	1.13
360	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.84	0.92	1.00

Intensity-Duration Design Chart - Template

FIGURE 3-1

Appendix 5 –Hydrology Calculations and Exhibits

EXISTING CONDITION

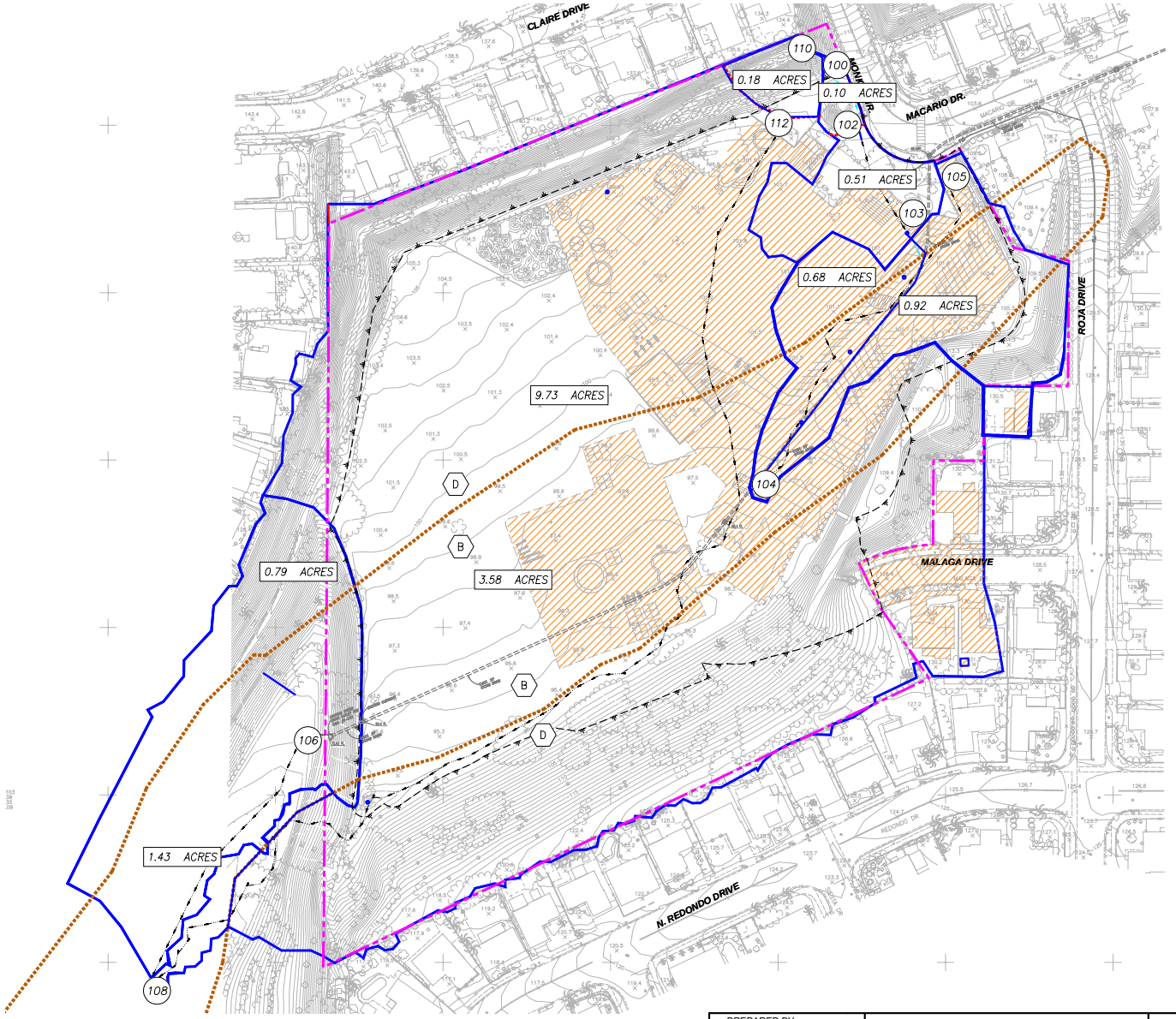
Existing Condition																		
AES INPUT DATA																		
Node #			Elevation		Length (ft)		Area (Ac)			imperviousness	Soil Type B Area (ac)	Soil Type D Area (ac)	C value	If Channel			If memory
From	To	code	Up	Down		slope	total	Pervious	impervious					Base (ft)	Z:1	maning	Bank #
100	102	2	115	103.5	100	11.50%	0.10	0.10	0.00	0.00%	0.00	0.10	0.35				
102	103	5	103.5	101	126.7	1.97%	0.51	0.17	0.34	66.78%	0.00	0.51	0.72	119	30:1	0.03	
103	104	3	90.80	88.48	387.3	0.60%											
105	104	8					1.60	0.49	1.11	69.33%	0.92	0.68	0.71				
104	106	3	88.39	72.63	542.84	2.90%											
106	108	5	72.6	67.9	377	1.25%	2.22	2.22	0	0.00%	1.43	0.79	0.29	25	29:1	0.03	
108	108	10															1
110	112	2	134	105	100	29.00%	0.18	0.18	0.00	0.00%	0.00	0.18	0.35				
112	108	5	105	67.9	1528.7	2.43%	13.31	9.76	3.55	26.69%	3.58	9.73	0.48	153	45:1	0.03	
112	108	11															1
108	108	12															1
Total							17.92	12.92	5.00	28%	5.93	11.99	0.479				

Example
0.9 X (3.55/13.31)+0.35 X (9.73/13.31)X (9.76/13.31)+0.25 X (3.58/13.31)X (9.76/13.31)= 0.48
(0.9X Imp%) +(0.35 X Soil D%X Per%)+ (0.25 X Soil B % X Per %)

LEGEND

- PROJECT BOUNDARY
- DRAINAGE BOUNDARY
- INITIAL SUBAREA
- FLOW DIRECTION
- XX.XX ACRES — AREA
- X — HYDROLOGIC SOIL TYPE
- XXX — NODE NUMBER
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA
- LIMITS OF AREA TO BE DISTURBED

60 0 60 120 180
SCALE 1"= 60'



PREPARED BY:
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EXISITNG HYDROLOGY
PACIFIC SITE
CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 1087-0010

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           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
           Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                        2003,1985,1981 HYDROLOGY MANUAL
         (c) Copyright 1982-2015 Advanced Engineering Software (aes)
             Ver. 22.0 Release Date: 07/01/2015  License ID 1239

                           Analysis prepared by:

                    Hunsaker & Associates San Diego, Inc.
                              9707 Waples Street
                             San Diego,  CA 92121


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  TIME/DATE OF STUDY: 14:01 06/10/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   2.730
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   14.0      9.0    0.020/0.018/0.020   0.33    2.00 0.0313 0.125 0.0160
  2   14.0      9.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0160
  3   12.0      6.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    102.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    115.00
  DOWNSTREAM ELEVATION(FEET) =    103.50
  ELEVATION DIFFERENCE(FEET) =     11.50
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
```

```
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    103.50  DOWNSTREAM(FEET) =    101.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   100.00   CHANNEL SLOPE =  0.0250
  CHANNEL BASE(FEET) =  119.00   "Z" FACTOR =  30.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.732
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7200
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.09
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.50
  AVERAGE FLOW DEPTH(FEET) =   0.02   TRAVEL TIME(MIN.) =   3.30
  Tc(MIN.) =    9.57
  SUBAREA AREA(ACRES) =     0.51       SUBAREA RUNOFF(CFS) =    1.74
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.659
  TOTAL AREA(ACRES) =        0.6         PEAK FLOW RATE(CFS) =       1.90

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.03   FLOW VELOCITY(FEET/SEC.) =   0.62
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     200.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    90.80  DOWNSTREAM(FEET) =    88.48
  FLOW LENGTH(FEET) =   387.30   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   6.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.61
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.90
  PIPE TRAVEL TIME(MIN.) =   1.79    Tc(MIN.) =   11.36
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =     587.30 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.237
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7100
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.6960
  SUBAREA AREA(ACRES) =    1.60   SUBAREA RUNOFF(CFS) =    4.81
  TOTAL AREA(ACRES) =        2.2   TOTAL RUNOFF(CFS) =       6.52
  TC(MIN.) =   11.36

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    106.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    88.39  DOWNSTREAM(FEET) =    72.63
  FLOW LENGTH(FEET) =   542.84   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   7.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.98
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       6.52
  PIPE TRAVEL TIME(MIN.) =   1.01    Tc(MIN.) =   12.37
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1130.14 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    108.00 IS CODE =  51
```

```
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     72.60  DOWNSTREAM(FEET) =     67.90
  CHANNEL LENGTH THRU SUBAREA(FEET) =   337.00   CHANNEL SLOPE =  0.0139
  CHANNEL BASE(FEET) =   25.00   "Z" FACTOR =  29.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.406
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .2900
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.63
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.57
  AVERAGE FLOW DEPTH(FEET) =   0.16   TRAVEL TIME(MIN.) =   3.57
  Tc(MIN.) =   15.94
  SUBAREA AREA(ACRES) =     2.22       SUBAREA RUNOFF(CFS) =    2.19
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.493
  TOTAL AREA(ACRES) =        4.4         PEAK FLOW RATE(CFS) =       7.43

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.16   FLOW VELOCITY(FEET/SEC.) =   1.60
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1467.14 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    112.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    134.00
  DOWNSTREAM ELEVATION(FEET) =    105.00
  ELEVATION DIFFERENCE(FEET) =     29.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.39
  TOTAL AREA(ACRES) =      0.18   TOTAL RUNOFF(CFS) =      0.39

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    108.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    105.00  DOWNSTREAM(FEET) =     67.90
  CHANNEL LENGTH THRU SUBAREA(FEET) =  1528.70   CHANNEL SLOPE =  0.0243
  CHANNEL BASE(FEET) =  153.00   "Z" FACTOR =  45.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.267
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .4800
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       8.44
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.08
  AVERAGE FLOW DEPTH(FEET) =   0.05   TRAVEL TIME(MIN.) =  23.68
  Tc(MIN.) =   29.95
  SUBAREA AREA(ACRES) =    13.31       SUBAREA RUNOFF(CFS) =   14.48
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.478
  TOTAL AREA(ACRES) =       13.5         PEAK FLOW RATE(CFS) =      14.63
```

```
  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.31
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    108.00 =    1628.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    108.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       14.63    29.95       2.267       13.49
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    108.00 =    1628.70 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        7.43    15.94       3.406        4.43
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1467.14 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      15.22      15.94        3.406
      2      19.57      29.95        2.267

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      19.57   Tc(MIN.) =   29.95
  TOTAL AREA(ACRES) =       17.9

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       17.9  TC(MIN.) =     29.95
  PEAK FLOW RATE(CFS)   =      19.57
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

PROPOSED CONDITION

Proposed Condition																	
AES INPUT DATA																	
Node #			Elevation				Area				Soil Type B Area	Soil Type		If Channel			If memory
From	To	code	Up	Down	Length	slope	total	pervious	impervious	imperviousness	(ac)	D Area	C value	Base (ft)	Z:1	maning	Bank #
400	402	2	134	105	165.0	17.58%	0.16	0.16	0.00	0.00%	0.000	0.16	0.35				
402	404	5	105	104	58.0	1.72%								2	2:01	0.015	
402	404	8					0.33	0.33	0.00	0.00%	0.000	0.33	0.35				
404	700	3	93.5	91.9	160.0	1.00%											
700	700	10															1
300	302	2	105.6	104.9	70.0	1.00%	0.10	0.00	0.10	100.00%	0.100	0.00	0.90				
302	304	6	104.9	102	220.3	1.32%	0.45	0.00	0.45	100.00%	0.150	0.30	0.90				
304	304	1															1 of 2
306	308	2	127	106	90.9	23.11%	0.10	0.10	0.00	0.00%	0.050	0.05	0.30				
308	310	5	106	104	156.7	1.28%								2	2:01	0.015	
308	310	8					0.27	0.2	0.07	25.93%	0.000	0.33	0.55				
310	304	3	93.4	93.1	27.5	1.09%											
304	304	1															2 of 2
304	700	3	93.1	91.9	212.98	0.56%											
700	700	10															1
700	700	11															1
700	700	12															1
700	701	3	91.9	87.2	497.6	0.94%											
701	701	10															1
406	408	2	140.5	114.5	100.0	26.00%	0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
408	410	5	114.5	106	239.8	3.54%								2	2:01	0.015	
408	410	8					0.49	0.49	0.00	0.00%	0.000	0.49	0.35				
410	416	3	101	99.7	129.6	1.00%											
412	416	8					0.08	0.08	0.00	0.00%	0.000	0.08	0.35				
416	701	3	99.7	87.2	54.1	23.09%											
700	701	11															1
700	701	12															1
701	428	3	87.2	85.7	140.34	1.07%											
428	428	1															1 of 2
414	424	2	135	99.4	68.55	51.93%	0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
424	428	5	99.4	96.7	177.06	1.52%								2	2:01	0.015	
424	428	8					0.29	0.29	0.00	0.00%	0.000	0.29	0.35				
428	428	1															2 of 2
428	2	3	85.5	83.3	226.5	0.97%											
2	2	10															1
430	432	2	130.5	121	100.0	9.50%	0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
432	434	5	128.7	94	619.9	5.60%								2	2:01	0.015	
432	434	8					1.81	1.81	0.00	0.00%	0.000	1.81	0.35				
434	2	3	94	83.3	124.0	8.63%											
2	2	11															1
2	2	12															
2	2	10															1
Routed to Basin																	
130	132	2	128	105	84.2	27.32%	0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
132	134	5	107	105	96.0	2.08%								2	2:01	0.015	
132	134	8					0.53	0.53	0.00	0.00%	0.250	0.28	0.30				

Proposed Condition																		
AES INPUT DATA																		
Node #			Elevation				Area				Soil Type B Area	Soil Type		If Channel			If memory
From	To	code	Up	Down	Length	slope	total	pervious	impervious	imperviousness	(ac)	D Area	C value	Base (ft)	Z:1	maning	Bank #
134	104	3	97.5	96.9	41.9	1.43%											
104	104	1															1 of 2
100	102	2	104.3	102.86	74.3	1.94%	0.10	0.00	0.10	100.00%	0.100	0.00	0.90				
102	104	6	102.86	100.99	95.4	1.96%	0.21	0.00	0.21	100.00%	0.210	0.00	0.90				
104	104	1															2 of 2
104	703	3	96.6	96.4	12.8	1.56%											
703	703	1															1 of 2
114	116	2	103.7	102.95	65.0	1.15%	0.10	0.02	0.08	78.00%	0.100	0.00	0.76				
116	118	6	102.95	101.17	95.4	1.87%	0.22	0.05	0.17	78.00%	0.220	0.00	0.76				
118	703	3	96.6	96.4	24.0	0.83%											
703	703	1															2 of 2
703	706	3	96.4	94.8	150.7	1.06%											
706	706	1															1:3'
138	140	2	130	109.5	100.0	20.50%	0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
140	142	5	109.5	96	71.7	18.84%								2	2:01	0.015	
140	142	8					0.11	0.11	0.00	0.00%	0.000	0.11	0.35				
142	108	3	96	95	7.3	13.70%											
107	108	8					0.08	0.02	0.06	78.00%	0.060	0.02	0.77				
108	706	3	95	94.8	13.1	1.53%											
706	706	1															2:3'
200	202	2	105.65	104.8	65.0	1.31%	0.10	0.02	0.08	78.00%	0.000	0.10	0.78				
202	204	6	104.8	102.7	237.0	0.89%	0.49	0.11	0.38	78.00%	0.000	0.49	0.78				
204	706	3	97.1	94.8	308.5	0.75%											
706	706	1															3:3'
706	708	3	94.8	94.2	51.75	1.16%											
144	708	8					0.10	0.10	0.00	0.00%	0.000	0.10	0.35				
708	712	3	94.2	93.5	70.3	1.00%											
712	712	1															1:2
162	164	2	103.6	102.95	65.0	1.00%	0.10	0.02	0.08	78.00%	0.000	0.10	0.78				
164	166	6	102.95	98.6	435.0	1.00%	0.94	0.21	0.73	78.00%	0.700	0.23	0.76				
166	712	3	93.6	93.5	13.2	0.76%											
166	712	1															2:2
712	718	3	93.5	92.2	45.3	2.87%											
718	718	10															2
168	170	2	130.2	129	75.0	1.60%	0.10	0.04	0.06	59.00%	0.000	0.10	0.67				
170	174	6	129	98.8	405.7	7.44%	0.29	0.10	0.19	65.00%	0.000	0.29	0.71				
174	718	3	93.9	92.2	55.0	3.09%											
718	718	11															2
718	718	12															2
718	180	3	92.2	91.9	48.0	0.62%											
180	180	1															2:1
176	178	2	131.2	129	75.0	2.93%	0.10	0.04	0.06	59.00%	0.000	0.10	0.67				
178	180	6	129	97.5	452.0	6.97%	0.68	0.22	0.46	68.00%	0.240	0.44	0.71				
180	180	1															2:2
180	722	3	91.9	91	159.0	0.57%											
722	722	10															2

Proposed Condition																		
AES INPUT DATA																		
Node #			Elevation				Area				Soil Type B Area	Soil Type		If Channel			If memory
From	To	code	Up	Down	Length	slope	total	pervious	impervious	imperviousness	(ac)	D Area	C value	Base (ft)	Z:1	maning	Bank #
206	208	2	103.8	103.2	65.0	0.92%	0.10	0.02	0.08	78.00%	0.000	0.10	0.78				
208	210	6	103.2	97.8	566.5	0.95%	1.84	0.40	1.44	78.00%	0.010	1.83	0.78				
210	720	3	92.7	92.5	14.8	1.35%											
720	720	1															1:2
212	214	2	100.7	99.9	75.0	1.07%	0.10	0.02	0.08	78.00%	0.000	0.10	0.78				
214	216	6	99.9	97.8	186.9	1.12%	0.21	0.05	0.16	78.00%	0.070	0.14	0.77				
216	720	3	92.7	92.5	13.5	1.48%											
720	720	1															2:2
720	722	3	92.5	91	115.0	1.30%											
722	722	11															2
722	722	12															2
722	724	3	91	90.4	82.0	0.73%											
724	724	1															1:2
218	220	2	102.55	101.9	65.0	1.00%	0.10	0.02	0.08	78.00%	0.000	0.10	0.78				
220	724	6	101.9	95.4	650.0	1.00%	1.80	0.40	1.40	78.00%	1.322	0.48	0.76				
724	724	1															2:2
723	724	8					0.65	0.14	0.51	78.00%		0.65	0.78				
724	1	3	90.4	89	53.2	2.63%											
436	1	8					1.13	1.13	0.00	0.00%		1.13	0.35				
Discharge from Basin																	
1	2	3	83	82.3	35.4	1.98%											
2	2	11															1
2	2	12															1
2	3	5	72.6	67.9	377	1.25%	2.25	2.25	0	0.00%	1.43	0.79	0.28	25	2:01	0.035	
4	3	8					0.88	0.88	0	0.00%	0.17	0.71	0.33				
Total							17.9	10.86	7.03	39%			0.552				

Example
0.9 X (1.4/1.8)+0.35 X (0.48/1.8)X (0.4/1.80)+0.25 X (1.322/1.8)X (0.4/1.8)= 0.76
(0.9X Imp%) +(0.35 X Soil D%X Per%)+ (0.25 X Soil B % X Per %)

LEGEND

- PROJECT BOUNDARY
- DRAINAGE BOUNDARY
- INITIAL SUBAREA
- FLOW DIRECTION
- XX.XX ACRES — AREA
- X — HYDROLOGIC SOIL TYPE
- XXX — NODE NUMBER
- SOIL BOUNDARY
- LIMITS OF AREA TO BE DISTURBED

60 0 60 120 180
SCALE 1"= 60'

PREPARED BY:

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca. 92121
SURVEYING PH(858)558-4500 · FX(858)558-1414

PROPOSED
HYDROLOGY MAP

PACIFICA SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 3087-0010

R:\1714\Hyd\DR\CAD\1714PR-HYDROLOGY.dwg[]Mar-23-2023:13:25

Unmitigated

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           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
           Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                        2003,1985,1981 HYDROLOGY MANUAL
         (c) Copyright 1982-2015 Advanced Engineering Software (aes)
             Ver. 22.0 Release Date: 07/01/2015  License ID 1239

                          Analysis prepared by:




----------------------------------------------------------------------------
  FILE NAME: R:\1714\HYD\DR\CALCS\AES\PR\PR100.DAT
  TIME/DATE OF STUDY: 13:28 03/22/2023
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   2.730
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   14.0      9.0    0.020/0.018/0.020   0.33    2.00 0.0313 0.125 0.0160
  2   14.0      9.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0160
  3   12.0      6.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    402.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   165.00
  UPSTREAM ELEVATION(FEET) =    134.00
  DOWNSTREAM ELEVATION(FEET) =    105.00
  ELEVATION DIFFERENCE(FEET) =     29.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =   100.00
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.35
  TOTAL AREA(ACRES) =      0.16   TOTAL RUNOFF(CFS) =      0.35

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    404.00 IS CODE =  51
```

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    105.00  DOWNSTREAM(FEET) =    104.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    58.00   CHANNEL SLOPE =  0.0172
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.35
  FLOW VELOCITY(FEET/SEC.) =   2.21   FLOW DEPTH(FEET) =   0.07
  TRAVEL TIME(MIN.) =   0.44   Tc(MIN.) =    6.70
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    404.00 =     223.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    404.00 IS CODE =  81
--------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.953
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.33   SUBAREA RUNOFF(CFS) =    0.69
  TOTAL AREA(ACRES) =        0.5   TOTAL RUNOFF(CFS) =       1.02
  TC(MIN.) =    6.70

****************************************************************************
  FLOW PROCESS FROM NODE    404.00 TO NODE    700.00 IS CODE =  31
--------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.50  DOWNSTREAM(FEET) =    91.90
  FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.64
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.02
  PIPE TRAVEL TIME(MIN.) =   0.73    Tc(MIN.) =    7.44
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    700.00 =     383.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  10
--------------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
================================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    302.00 IS CODE =  21
--------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
================================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    70.00
  UPSTREAM ELEVATION(FEET) =    105.60
  DOWNSTREAM ELEVATION(FEET) =    104.90
  ELEVATION DIFFERENCE(FEET) =      0.70
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    3.012
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    70.00
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.65
```

```
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.65

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  3 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  104.90  DOWNSTREAM ELEVATION(FEET) =  102.00
  STREET LENGTH(FEET) =   151.94   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 12.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   6.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.10
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.24
    HALFSTREET FLOOD WIDTH(FEET) =    5.61
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.43
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.58
  STREET FLOW TRAVEL TIME(MIN.) =   1.04   Tc(MIN.) =    4.05
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.900
  SUBAREA AREA(ACRES) =    0.45      SUBAREA RUNOFF(CFS) =    2.91
  TOTAL AREA(ACRES) =        0.6        PEAK FLOW RATE(CFS) =       3.56

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.27   HALFSTREET FLOOD WIDTH(FEET) =   7.36
  FLOW VELOCITY(FEET/SEC.) =  2.70   DEPTH*VELOCITY(FT*FT/SEC.) =   0.74
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     221.94 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    4.05
  RAINFALL INTENSITY(INCH/HR) =   7.19
  TOTAL STREAM AREA(ACRES) =     0.55
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      3.56

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    308.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    90.90
  UPSTREAM ELEVATION(FEET) =    127.00
  DOWNSTREAM ELEVATION(FEET) =    106.00
  ELEVATION DIFFERENCE(FEET) =     21.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.373
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.151
```

```
  SUBAREA RUNOFF(CFS) =      0.18
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.18

****************************************************************************
  FLOW PROCESS FROM NODE    308.00 TO NODE    310.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    106.00  DOWNSTREAM(FEET) =    104.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.70   CHANNEL SLOPE =  0.0128
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.18
  FLOW VELOCITY(FEET/SEC.) =   1.55   FLOW DEPTH(FEET) =   0.06
  TRAVEL TIME(MIN.) =   1.68   Tc(MIN.) =    8.06
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    310.00 =     247.60 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    308.00 TO NODE    310.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.288
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .5500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.4824
  SUBAREA AREA(ACRES) =    0.27   SUBAREA RUNOFF(CFS) =    0.79
  TOTAL AREA(ACRES) =        0.4   TOTAL RUNOFF(CFS) =       0.94
  TC(MIN.) =    8.06

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.40  DOWNSTREAM(FEET) =    93.10
  FLOW LENGTH(FEET) =    27.50   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.67
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.94
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    8.18
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    304.00 =     275.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.18
  RAINFALL INTENSITY(INCH/HR) =   5.24
  TOTAL STREAM AREA(ACRES) =     0.37
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.94

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        3.56     4.05        7.193          0.55
      2        0.94     8.18        5.236          0.37

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.
```

```
  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        4.03     4.05       7.193
      2        3.54     8.18       5.236

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       4.03   Tc(MIN.) =    4.05
  TOTAL AREA(ACRES) =        0.9
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    304.00 =     275.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    700.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.40  DOWNSTREAM(FEET) =    90.30
  FLOW LENGTH(FEET) =   311.20   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.33
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.03
  PIPE TRAVEL TIME(MIN.) =   0.97    Tc(MIN.) =    5.03
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    700.00 =     586.30 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================
  ***MEMORY BANK #  1 IS FULL. THEREFORE, MAIN-STREAM MEMORY
     DATA CAN NOT BE COPIED ONTO IT - PROCESS IGNORED.***

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        4.03     5.03       7.168        0.92
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    700.00 =     586.30 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.02     7.44       5.568        0.49
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    700.00 =     383.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1       4.72       5.03       7.168
      2       4.15       7.44       5.568

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       4.72   Tc(MIN.) =    5.03
  TOTAL AREA(ACRES) =        1.4

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   101.40  DOWNSTREAM(FEET) =    86.20
  FLOW LENGTH(FEET) =   419.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   6.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.91
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.72
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =    5.81
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    701.00 =    1005.30 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    701.00 TO NODE    701.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    406.00 TO NODE    408.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    140.50
  DOWNSTREAM ELEVATION(FEET) =    114.50
  ELEVATION DIFFERENCE(FEET) =     26.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    408.00 TO NODE    410.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    114.50  DOWNSTREAM(FEET) =    106.50
  CHANNEL LENGTH THRU SUBAREA(FEET) =   239.80   CHANNEL SLOPE =  0.0334
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   2.13   FLOW DEPTH(FEET) =   0.05
  TRAVEL TIME(MIN.) =   1.87   Tc(MIN.) =    8.14
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    410.00 =     339.80 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    408.00 TO NODE    410.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.253
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.49   SUBAREA RUNOFF(CFS) =    0.90
  TOTAL AREA(ACRES) =        0.6   TOTAL RUNOFF(CFS) =       1.08
  TC(MIN.) =    8.14
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    410.00 TO NODE    416.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   100.00  DOWNSTREAM(FEET) =    98.70
  FLOW LENGTH(FEET) =   596.60   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   2.15
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.08
  PIPE TRAVEL TIME(MIN.) =   4.63    Tc(MIN.) =   12.77
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    416.00 =     936.40 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    412.00 TO NODE    416.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.928
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.08   SUBAREA RUNOFF(CFS) =    0.11
  TOTAL AREA(ACRES) =        0.7   TOTAL RUNOFF(CFS) =       1.08
  TC(MIN.) =   12.77
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    416.00 TO NODE    701.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    98.70  DOWNSTREAM(FEET) =    86.20
  FLOW LENGTH(FEET) =   524.40   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.02
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.08
  PIPE TRAVEL TIME(MIN.) =   1.74    Tc(MIN.) =   14.51
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    701.00 =    1460.80 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.08    14.51       3.618        0.67
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    701.00 =    1460.80 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        4.72     5.81       6.528        1.41
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    701.00 =    1005.30 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
```

```
      1       5.15       5.81        6.528
      2       3.70      14.51        3.618

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       5.15   Tc(MIN.) =    5.81
  TOTAL AREA(ACRES) =        2.1

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    701.00 TO NODE    428.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    86.20  DOWNSTREAM(FEET) =    84.20
  FLOW LENGTH(FEET) =   202.40   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   9.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.66
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.15
  PIPE TRAVEL TIME(MIN.) =   0.60    Tc(MIN.) =    6.41
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    428.00 =    1663.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    428.00 TO NODE    428.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.41
  RAINFALL INTENSITY(INCH/HR) =   6.13
  TOTAL STREAM AREA(ACRES) =     2.08
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      5.15

****************************************************************************
  FLOW PROCESS FROM NODE    414.00 TO NODE    424.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    68.55
  UPSTREAM ELEVATION(FEET) =    135.00
  DOWNSTREAM ELEVATION(FEET) =     99.40
  ELEVATION DIFFERENCE(FEET) =     35.60
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.188
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.023
  SUBAREA RUNOFF(CFS) =      0.25
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.25

****************************************************************************
  FLOW PROCESS FROM NODE    424.00 TO NODE    428.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     99.40  DOWNSTREAM(FEET) =     96.70
  CHANNEL LENGTH THRU SUBAREA(FEET) =   177.06   CHANNEL SLOPE =  0.0152
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
```

```
 CHANNEL FLOW THRU SUBAREA(CFS) =       0.25
 FLOW VELOCITY(FEET/SEC.) =   1.81   FLOW DEPTH(FEET) =   0.06
 TRAVEL TIME(MIN.) =   1.63   Tc(MIN.) =    6.82
 LONGEST FLOWPATH FROM NODE    414.00 TO NODE    428.00 =     245.61 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    424.00 TO NODE    428.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.887
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3500
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
 SUBAREA AREA(ACRES) =    0.29   SUBAREA RUNOFF(CFS) =    0.60
 TOTAL AREA(ACRES) =        0.4   TOTAL RUNOFF(CFS) =       0.80
 TC(MIN.) =    6.82

****************************************************************************
 FLOW PROCESS FROM NODE    428.00 TO NODE    428.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.82
 RAINFALL INTENSITY(INCH/HR) =   5.89
 TOTAL STREAM AREA(ACRES) =     0.39
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.80

 ** CONFLUENCE DATA **
 STREAM     RUNOFF       Tc      INTENSITY      AREA
 NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
     1        5.15     6.41        6.130          2.08
     2        0.80     6.82        5.887          0.39

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
 STREAM     RUNOFF      Tc      INTENSITY
 NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
     1        5.91     6.41       6.130
     2        5.75     6.82       5.887

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       5.91   Tc(MIN.) =    6.41
 TOTAL AREA(ACRES) =        2.5
 LONGEST FLOWPATH FROM NODE    406.00 TO NODE    428.00 =    1663.20 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    428.00 TO NODE      2.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    84.20  DOWNSTREAM(FEET) =    82.30
 FLOW LENGTH(FEET) =   226.50   MANNING'S N =  0.013
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.50
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.91
 PIPE TRAVEL TIME(MIN.) =   0.69    Tc(MIN.) =    7.09
 LONGEST FLOWPATH FROM NODE    406.00 TO NODE      2.00 =    1889.70 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  10
```

```
------------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
==============================================================================

******************************************************************************
  FLOW PROCESS FROM NODE    430.00 TO NODE    432.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    130.50
  DOWNSTREAM ELEVATION(FEET) =    121.00
  ELEVATION DIFFERENCE(FEET) =      9.50
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.375
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.150
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

******************************************************************************
  FLOW PROCESS FROM NODE    432.00 TO NODE    434.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    128.70  DOWNSTREAM(FEET) =     94.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   663.10   CHANNEL SLOPE =  0.0523
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   2.52   FLOW DEPTH(FEET) =   0.04
  TRAVEL TIME(MIN.) =   4.38   Tc(MIN.) =   10.76
  LONGEST FLOWPATH FROM NODE    430.00 TO NODE    434.00 =     763.10 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    432.00 TO NODE    434.00 IS CODE =  81
------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.388
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    1.81   SUBAREA RUNOFF(CFS) =    2.78
  TOTAL AREA(ACRES) =       1.9   TOTAL RUNOFF(CFS) =       2.93
  TC(MIN.) =   10.76

******************************************************************************
  FLOW PROCESS FROM NODE    434.00 TO NODE      2.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    94.00  DOWNSTREAM(FEET) =    82.30
  FLOW LENGTH(FEET) =   124.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.94
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.93
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =   10.95
  LONGEST FLOWPATH FROM NODE    430.00 TO NODE      2.00 =     887.10 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  11
------------------------------------------------------------------------------
```

```
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
================================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        2.93    10.95       4.339        1.91
  LONGEST FLOWPATH FROM NODE    430.00 TO NODE      2.00 =     887.10 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        5.91     7.09       5.740        2.47
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      2.00 =    1889.70 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1       7.81       7.09        5.740
      2       7.40      10.95        4.339

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       7.81   Tc(MIN.) =    7.09
  TOTAL AREA(ACRES) =        4.4

********************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  12
--------------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
================================================================================

********************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  10
--------------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
================================================================================

+------------------------------------------------------------------------------+
| Starting hydrology analysis for area drains towards the biofiltration        |
| \detention basin                                                             |
|                                                                              |
+------------------------------------------------------------------------------+

********************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    132.00 IS CODE =  21
--------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
================================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    84.20
  UPSTREAM ELEVATION(FEET) =    128.00
  DOWNSTREAM ELEVATION(FEET) =    105.00
  ELEVATION DIFFERENCE(FEET) =     23.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.750
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.573
  SUBAREA RUNOFF(CFS) =      0.23
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.23

********************************************************************************
  FLOW PROCESS FROM NODE    132.00 TO NODE    134.00 IS CODE =  51
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    107.00  DOWNSTREAM(FEET) =    105.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    96.00   CHANNEL SLOPE =  0.0208
```

```
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.23
  FLOW VELOCITY(FEET/SEC.) =   1.94   FLOW DEPTH(FEET) =   0.06
  TRAVEL TIME(MIN.) =   0.83   Tc(MIN.) =    6.58
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    134.00 =     180.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    132.00 TO NODE    134.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.027
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3079
  SUBAREA AREA(ACRES) =    0.53   SUBAREA RUNOFF(CFS) =    0.96
  TOTAL AREA(ACRES) =        0.6   TOTAL RUNOFF(CFS) =       1.17
  TC(MIN.) =    6.58

****************************************************************************
  FLOW PROCESS FROM NODE    134.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    97.50  DOWNSTREAM(FEET) =    96.90
  FLOW LENGTH(FEET) =    41.90   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.30
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.17
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =    6.74
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    104.00 =     222.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.74
  RAINFALL INTENSITY(INCH/HR) =   5.93
  TOTAL STREAM AREA(ACRES) =     0.63
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.17

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    102.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    74.30
  UPSTREAM ELEVATION(FEET) =    104.30
  DOWNSTREAM ELEVATION(FEET) =    102.86
  ELEVATION DIFFERENCE(FEET) =      1.44
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    2.489
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.65
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.65

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    104.00 IS CODE =  62
```

```
------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
==============================================================================
  UPSTREAM ELEVATION(FEET) =  102.86  DOWNSTREAM ELEVATION(FEET) =  100.99
  STREET LENGTH(FEET) =    95.40   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0160

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.33
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.21
    HALFSTREET FLOOD WIDTH(FEET) =    4.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.15
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.46
  STREET FLOW TRAVEL TIME(MIN.) =   0.74   Tc(MIN.) =    3.23
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.900
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    1.36
  TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       2.01

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.24   HALFSTREET FLOOD WIDTH(FEET) =   5.67
  FLOW VELOCITY(FEET/SEC.) =  2.28   DEPTH*VELOCITY(FT*FT/SEC.) =   0.55
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =     169.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    3.23
  RAINFALL INTENSITY(INCH/HR) =   7.19
  TOTAL STREAM AREA(ACRES) =     0.31
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.01

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        1.17     6.74        5.933          0.63
      2        2.01     3.23        7.193          0.31

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        2.57     3.23       7.193
      2        2.82     6.74       5.933

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       2.82   Tc(MIN.) =    6.74
  TOTAL AREA(ACRES) =        0.9
```

```
 LONGEST FLOWPATH FROM NODE    130.00 TO NODE    104.00 =     222.10 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    104.00 TO NODE    703.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    96.60  DOWNSTREAM(FEET) =    96.40
 FLOW LENGTH(FEET) =    12.80   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.8 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       2.82
 PIPE TRAVEL TIME(MIN.) =   0.04    Tc(MIN.) =    6.78
 LONGEST FLOWPATH FROM NODE    130.00 TO NODE    703.00 =     234.90 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    703.00 TO NODE    703.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.78
 RAINFALL INTENSITY(INCH/HR) =   5.91
 TOTAL STREAM AREA(ACRES) =     0.94
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.82

****************************************************************************
 FLOW PROCESS FROM NODE    114.00 TO NODE    116.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .7600
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
 UPSTREAM ELEVATION(FEET) =    103.70
 DOWNSTREAM ELEVATION(FEET) =    102.95
 ELEVATION DIFFERENCE(FEET) =      0.75
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.704
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
 NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
 SUBAREA RUNOFF(CFS) =      0.55
 TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.55

****************************************************************************
 FLOW PROCESS FROM NODE    116.00 TO NODE    118.00 IS CODE =  62
----------------------------------------------------------------------------
 >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
 UPSTREAM ELEVATION(FEET) =  102.95  DOWNSTREAM ELEVATION(FEET) =  101.17
 STREET LENGTH(FEET) =    95.40   CURB HEIGHT(INCHES) =  6.0
 STREET HALFWIDTH(FEET) = 14.00

 DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
 INSIDE STREET CROSSFALL(DECIMAL) =  0.020
 OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

 SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
 STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
 Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
 Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0160

   **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.11
   STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
```

```
    STREET FLOW DEPTH(FEET) =  0.20
    HALFSTREET FLOOD WIDTH(FEET) =    3.93
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.04
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.42
  STREET FLOW TRAVEL TIME(MIN.) =   0.78   Tc(MIN.) =    5.48
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.777
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.760
  SUBAREA AREA(ACRES) =    0.22      SUBAREA RUNOFF(CFS) =    1.13
  TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       1.65

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.23   HALFSTREET FLOOD WIDTH(FEET) =   5.11
  FLOW VELOCITY(FEET/SEC.) =  2.18   DEPTH*VELOCITY(FT*FT/SEC.) =   0.50
  LONGEST FLOWPATH FROM NODE    114.00 TO NODE    118.00 =     160.40 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    118.00 TO NODE    703.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    96.60  DOWNSTREAM(FEET) =    96.40
  FLOW LENGTH(FEET) =    24.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.90
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.65
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =    5.59
  LONGEST FLOWPATH FROM NODE    114.00 TO NODE    703.00 =     184.40 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    703.00 TO NODE    703.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    5.59
  RAINFALL INTENSITY(INCH/HR) =   6.70
  TOTAL STREAM AREA(ACRES) =     0.32
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.65

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        2.82     6.78        5.912          0.94
      2        1.65     5.59        6.697          0.32

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        4.14     5.59       6.697
      2        4.28     6.78       5.912

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       4.28   Tc(MIN.) =    6.78
  TOTAL AREA(ACRES) =        1.3
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    703.00 =     234.90 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    703.00 TO NODE    706.00 IS CODE =  31
```

```
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    96.40  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =   150.70   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.55
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.28
  PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    7.23
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    706.00 =     385.60 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    706.00 TO NODE    706.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.23
  RAINFALL INTENSITY(INCH/HR) =   5.67
  TOTAL STREAM AREA(ACRES) =     1.26
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      4.28

****************************************************************************
  FLOW PROCESS FROM NODE    138.00 TO NODE    140.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    130.00
  DOWNSTREAM ELEVATION(FEET) =    109.50
  ELEVATION DIFFERENCE(FEET) =     20.50
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    142.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    109.50  DOWNSTREAM(FEET) =     96.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    71.70   CHANNEL SLOPE =  0.1883
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   3.83   FLOW DEPTH(FEET) =   0.03
  TRAVEL TIME(MIN.) =   0.31   Tc(MIN.) =    6.58
  LONGEST FLOWPATH FROM NODE    138.00 TO NODE    142.00 =     171.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    142.00 IS CODE =  81
------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.026
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
```

```
  SUBAREA AREA(ACRES) =    0.11   SUBAREA RUNOFF(CFS) =    0.23
  TOTAL AREA(ACRES) =        0.2   TOTAL RUNOFF(CFS) =       0.44
  TC(MIN.) =    6.58

****************************************************************************
  FLOW PROCESS FROM NODE    142.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    96.00  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =     7.30   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   1.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.61
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.44
  PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =    6.59
  LONGEST FLOWPATH FROM NODE    138.00 TO NODE    108.00 =     179.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.017
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.4659
  SUBAREA AREA(ACRES) =    0.08   SUBAREA RUNOFF(CFS) =    0.37
  TOTAL AREA(ACRES) =        0.3   TOTAL RUNOFF(CFS) =       0.81
  TC(MIN.) =    6.59

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    706.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    95.00  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =    13.10   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.95
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.81
  PIPE TRAVEL TIME(MIN.) =   0.06    Tc(MIN.) =    6.65
  LONGEST FLOWPATH FROM NODE    138.00 TO NODE    706.00 =     192.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    706.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.65
  RAINFALL INTENSITY(INCH/HR) =   5.98
  TOTAL STREAM AREA(ACRES) =     0.29
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.81

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    202.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
```

```
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    105.65
  DOWNSTREAM ELEVATION(FEET) =    104.80
  ELEVATION DIFFERENCE(FEET) =      0.85
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.247
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    204.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  104.80  DOWNSTREAM ELEVATION(FEET) =  102.70
  STREET LENGTH(FEET) =   237.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    8.97
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.88
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.54
  STREET FLOW TRAVEL TIME(MIN.) =   2.11   Tc(MIN.) =    6.35
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.164
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.780
  SUBAREA AREA(ACRES) =    0.49      SUBAREA RUNOFF(CFS) =    2.36
  TOTAL AREA(ACRES) =        0.6        PEAK FLOW RATE(CFS) =       2.84

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.33   HALFSTREET FLOOD WIDTH(FEET) =  11.08
  FLOW VELOCITY(FEET/SEC.) =  2.10   DEPTH*VELOCITY(FT*FT/SEC.) =   0.69
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    706.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    97.10  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =   308.50   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   7.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.36
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.84
  PIPE TRAVEL TIME(MIN.) =   1.18    Tc(MIN.) =    7.53
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    706.00 =     610.50 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    706.00 TO NODE    706.00 IS CODE =   1
----------------------------------------------------------------------------
```

```
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
================================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.53
  RAINFALL INTENSITY(INCH/HR) =   5.52
  TOTAL STREAM AREA(ACRES) =     0.59
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.84

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        4.28     7.23        5.670          1.26
      2        0.81     6.65        5.984          0.29
      3        2.84     7.53        5.523          0.59

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  3 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        7.37     6.65       5.984
      2        7.77     7.23       5.670
      3        7.76     7.53       5.523

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       7.77   Tc(MIN.) =    7.23
  TOTAL AREA(ACRES) =        2.1
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    706.00 =     610.50 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    706.00 TO NODE    708.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    97.10  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =    51.75   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   7.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  11.00
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.77
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =    7.31
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    708.00 =     662.25 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    144.00 TO NODE    708.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.631
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.6011
  SUBAREA AREA(ACRES) =    0.10   SUBAREA RUNOFF(CFS) =    0.20
  TOTAL AREA(ACRES) =        2.2   TOTAL RUNOFF(CFS) =       7.77
  TC(MIN.) =    7.31
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    708.00 TO NODE    712.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
```

```
  ELEVATION DATA: UPSTREAM(FEET) =    94.20  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    70.30   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  12.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.22
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.77
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =    7.50
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    712.00 =     732.55 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    712.00 TO NODE    712.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.50
  RAINFALL INTENSITY(INCH/HR) =   5.54
  TOTAL STREAM AREA(ACRES) =     2.24
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      7.77

****************************************************************************
  FLOW PROCESS FROM NODE    162.00 TO NODE    164.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    103.60
  DOWNSTREAM ELEVATION(FEET) =    102.95
  ELEVATION DIFFERENCE(FEET) =      0.65
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.644
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    164.00 TO NODE    166.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  102.95  DOWNSTREAM ELEVATION(FEET) =   98.60
  STREET LENGTH(FEET) =   435.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.40
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.26
    HALFSTREET FLOOD WIDTH(FEET) =    7.29
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.83
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.47
  STREET FLOW TRAVEL TIME(MIN.) =   3.97   Tc(MIN.) =    8.61
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.066
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
```

```
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.762
  SUBAREA AREA(ACRES) =    0.94      SUBAREA RUNOFF(CFS) =    3.62
  TOTAL AREA(ACRES) =        1.0        PEAK FLOW RATE(CFS) =       4.01

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.29   HALFSTREET FLOOD WIDTH(FEET) =   9.25
  FLOW VELOCITY(FEET/SEC.) =  2.05   DEPTH*VELOCITY(FT*FT/SEC.) =   0.60
  LONGEST FLOWPATH FROM NODE    162.00 TO NODE    166.00 =     500.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    166.00 TO NODE    712.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.60  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    13.20   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.81
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.01
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =    8.66
  LONGEST FLOWPATH FROM NODE    162.00 TO NODE    712.00 =     513.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    166.00 TO NODE    712.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.66
  RAINFALL INTENSITY(INCH/HR) =   5.05
  TOTAL STREAM AREA(ACRES) =     1.04
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      4.01

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        7.77     7.50        5.539          2.24
      2        4.01     8.66        5.048          1.04

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       11.25     7.50       5.539
      2       11.10     8.66       5.048

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      11.25   Tc(MIN.) =    7.50
  TOTAL AREA(ACRES) =        3.3
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    712.00 =     732.55 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    712.00 TO NODE    718.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.60  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    45.30   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  18.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.87
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
```

```
  PIPE-FLOW(CFS) =      11.25
  PIPE TRAVEL TIME(MIN.) =   0.20    Tc(MIN.) =    7.69
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    718.00 =     777.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    168.00 TO NODE    170.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6700
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    130.20
  DOWNSTREAM ELEVATION(FEET) =    129.00
  ELEVATION DIFFERENCE(FEET) =      1.20
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.576
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    71.00
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.704
  SUBAREA RUNOFF(CFS) =      0.45
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.45

****************************************************************************
  FLOW PROCESS FROM NODE    170.00 TO NODE    174.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  129.00  DOWNSTREAM ELEVATION(FEET) =   98.80
  STREET LENGTH(FEET) =   405.70   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.04
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.18
    HALFSTREET FLOOD WIDTH(FEET) =    3.08
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.39
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.77
  STREET FLOW TRAVEL TIME(MIN.) =   1.54   Tc(MIN.) =    7.12
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.729
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7100
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.700
  SUBAREA AREA(ACRES) =    0.29      SUBAREA RUNOFF(CFS) =    1.18
  TOTAL AREA(ACRES) =        0.4        PEAK FLOW RATE(CFS) =       1.56

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.21   HALFSTREET FLOOD WIDTH(FEET) =   4.86
  FLOW VELOCITY(FEET/SEC.) =  4.31   DEPTH*VELOCITY(FT*FT/SEC.) =   0.89
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    174.00 =     480.70 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    174.00 TO NODE    718.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.90  DOWNSTREAM(FEET) =    92.20
  FLOW LENGTH(FEET) =    55.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.56
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =    7.27
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    718.00 =     535.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 2 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.56     7.27       5.652        0.39
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    718.00 =     535.70 FEET.

  ** MEMORY BANK #  2 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       11.25     7.69       5.448        3.28
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    718.00 =     777.85 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      12.19       7.27        5.652
      2      12.76       7.69        5.448

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      12.76   Tc(MIN.) =    7.69
  TOTAL AREA(ACRES) =        3.7

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    180.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    92.20  DOWNSTREAM(FEET) =    91.90
  FLOW LENGTH(FEET) =    48.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.93
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      12.76
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    7.83
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    180.00 =     825.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    180.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
```

```
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
================================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.83
  RAINFALL INTENSITY(INCH/HR) =   5.39
  TOTAL STREAM AREA(ACRES) =     3.67
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     12.76

********************************************************************************
  FLOW PROCESS FROM NODE    176.00 TO NODE    178.00 IS CODE =  21
--------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
================================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6700
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    131.20
  DOWNSTREAM ELEVATION(FEET) =    129.00
  ELEVATION DIFFERENCE(FEET) =      2.20
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.683
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.48
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.48

********************************************************************************
  FLOW PROCESS FROM NODE    178.00 TO NODE    180.00 IS CODE =  62
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) =  129.00  DOWNSTREAM ELEVATION(FEET) =   97.50
  STREET LENGTH(FEET) =   452.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.97
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.22
    HALFSTREET FLOOD WIDTH(FEET) =    5.67
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.40
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.98
  STREET FLOW TRAVEL TIME(MIN.) =   1.71   Tc(MIN.) =    6.39
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.138
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7100
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.705
  SUBAREA AREA(ACRES) =    0.68      SUBAREA RUNOFF(CFS) =    2.96
  TOTAL AREA(ACRES) =        0.8        PEAK FLOW RATE(CFS) =       3.37

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.26   HALFSTREET FLOOD WIDTH(FEET) =   7.57
  FLOW VELOCITY(FEET/SEC.) =  4.84   DEPTH*VELOCITY(FT*FT/SEC.) =   1.26
  LONGEST FLOWPATH FROM NODE    176.00 TO NODE    180.00 =     527.00 FEET.

********************************************************************************
  FLOW PROCESS FROM NODE    180.00 TO NODE    180.00 IS CODE =   1
--------------------------------------------------------------------------------
```

```
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.39
  RAINFALL INTENSITY(INCH/HR) =   6.14
  TOTAL STREAM AREA(ACRES) =     0.78
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      3.37

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       12.76     7.83        5.388          3.67
      2        3.37     6.39        6.138          0.78

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       13.80     6.39       6.138
      2       15.72     7.83       5.388

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      15.72   Tc(MIN.) =    7.83
  TOTAL AREA(ACRES) =        4.4
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    180.00 =     825.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    180.00 TO NODE    722.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    91.90  DOWNSTREAM(FEET) =    91.00
  FLOW LENGTH(FEET) =   159.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.86
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      15.72
  PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    8.28
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    722.00 =     984.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    722.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    208.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    103.00
  DOWNSTREAM ELEVATION(FEET) =    102.35
  ELEVATION DIFFERENCE(FEET) =      0.65
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.644
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    210.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  102.40  DOWNSTREAM ELEVATION(FEET) =   96.80
  STREET LENGTH(FEET) =   566.50   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.24
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   14.36
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.38
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.87
  STREET FLOW TRAVEL TIME(MIN.) =   3.97   Tc(MIN.) =    8.61
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.066
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.780
  SUBAREA AREA(ACRES) =    1.84      SUBAREA RUNOFF(CFS) =    7.27
  TOTAL AREA(ACRES) =        1.9        PEAK FLOW RATE(CFS) =       7.67

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.39   HALFSTREET FLOOD WIDTH(FEET) =  16.82
  FLOW VELOCITY(FEET/SEC.) =  2.48   DEPTH*VELOCITY(FT*FT/SEC.) =   0.97
  *NOTE: INITIAL SUBAREA NOMOGRAPH WITH SUBAREA PARAMETERS,
         AND L =  566.5 FT WITH ELEVATION-DROP =   5.6 FT, IS   10.3 CFS,
         WHICH EXCEEDS THE TOP-OF-CURB STREET CAPACITY AT NODE    210.00
  LONGEST FLOWPATH FROM NODE    206.00 TO NODE    210.00 =     631.50 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    720.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    91.90  DOWNSTREAM(FEET) =    91.70
  FLOW LENGTH(FEET) =    13.50   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.26
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.67
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.64
  LONGEST FLOWPATH FROM NODE    206.00 TO NODE    720.00 =     645.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    720.00 TO NODE    720.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.64
  RAINFALL INTENSITY(INCH/HR) =   5.05
  TOTAL STREAM AREA(ACRES) =     1.94
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      7.67
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    214.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =     99.70
  DOWNSTREAM ELEVATION(FEET) =     98.90
  ELEVATION DIFFERENCE(FEET) =      0.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.568
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    65.67
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    216.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =   98.90  DOWNSTREAM ELEVATION(FEET) =   96.70
  STREET LENGTH(FEET) =   186.95   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.07
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.24
    HALFSTREET FLOOD WIDTH(FEET) =    6.65
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.88
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.46
  STREET FLOW TRAVEL TIME(MIN.) =   1.66   Tc(MIN.) =    6.22
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.245
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.773
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    1.01
  TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       1.50

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.27   HALFSTREET FLOOD WIDTH(FEET) =   7.85
  FLOW VELOCITY(FEET/SEC.) =  2.02   DEPTH*VELOCITY(FT*FT/SEC.) =   0.54
  LONGEST FLOWPATH FROM NODE    212.00 TO NODE    216.00 =     261.95 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    720.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    91.90  DOWNSTREAM(FEET) =    91.70
  FLOW LENGTH(FEET) =    13.50   MANNING'S N =  0.013
```

```
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   4.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.67
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       1.50
 PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =    6.27
 LONGEST FLOWPATH FROM NODE    212.00 TO NODE    720.00 =     275.45 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    720.00 TO NODE    720.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.27
 RAINFALL INTENSITY(INCH/HR) =   6.21
 TOTAL STREAM AREA(ACRES) =     0.31
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.50

 ** CONFLUENCE DATA **
 STREAM     RUNOFF       Tc      INTENSITY      AREA
 NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
     1        7.67     8.64        5.054          1.94
     2        1.50     6.27        6.214          0.31

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
 STREAM     RUNOFF      Tc      INTENSITY
 NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
     1        7.06     6.27       6.214
     2        8.88     8.64       5.054

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       8.88   Tc(MIN.) =    8.64
 TOTAL AREA(ACRES) =        2.2
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    720.00 =     645.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    720.00 TO NODE    722.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    91.70  DOWNSTREAM(FEET) =    90.40
 FLOW LENGTH(FEET) =   146.00   MANNING'S N =  0.013
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  13.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.05
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       8.88
 PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =    9.04
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    722.00 =     791.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    722.00 TO NODE    722.00 IS CODE =  11
----------------------------------------------------------------------------
 >>>>>CONFLUENCE MEMORY BANK # 2 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

 ** MAIN STREAM CONFLUENCE DATA **
 STREAM     RUNOFF      Tc      INTENSITY     AREA
 NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
     1        8.88     9.04       4.908        2.25
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    722.00 =     791.00 FEET.

 ** MEMORY BANK #  2 CONFLUENCE DATA **
```

```
  STREAM     RUNOFF       Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       15.72     8.28       5.196        4.45
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    722.00 =     984.85 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      23.85       8.28        5.196
      2      23.73       9.04        4.908

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      23.85   Tc(MIN.) =    8.28
  TOTAL AREA(ACRES) =        6.7

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    722.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    724.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    90.40  DOWNSTREAM(FEET) =    89.50
  FLOW LENGTH(FEET) =    82.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.55
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      23.85
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =    8.44
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    724.00 =    1066.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE    724.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.44
  RAINFALL INTENSITY(INCH/HR) =   5.13
  TOTAL STREAM AREA(ACRES) =     6.70
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     23.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    220.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    101.55
  DOWNSTREAM ELEVATION(FEET) =    100.90
  ELEVATION DIFFERENCE(FEET) =      0.65
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.644
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    724.00 IS CODE =  62
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) =  101.90  DOWNSTREAM ELEVATION(FEET) =   95.40
  STREET LENGTH(FEET) =   650.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.80
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    9.04
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.01
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.59
  STREET FLOW TRAVEL TIME(MIN.) =   5.38   Tc(MIN.) =   10.02
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.593
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.761
  SUBAREA AREA(ACRES) =    1.80      SUBAREA RUNOFF(CFS) =    6.28
  TOTAL AREA(ACRES) =        1.9        PEAK FLOW RATE(CFS) =       6.64

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.34   HALFSTREET FLOOD WIDTH(FEET) =  11.83
  FLOW VELOCITY(FEET/SEC.) =  2.29   DEPTH*VELOCITY(FT*FT/SEC.) =   0.78
  *NOTE: INITIAL SUBAREA NOMOGRAPH WITH SUBAREA PARAMETERS,
         AND L =  650.0 FT WITH ELEVATION-DROP =   6.5 FT, IS    9.8 CFS,
         WHICH EXCEEDS THE TOP-OF-CURB STREET CAPACITY AT NODE    724.00
  LONGEST FLOWPATH FROM NODE    218.00 TO NODE    724.00 =     715.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE    724.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.02
  RAINFALL INTENSITY(INCH/HR) =   4.59
  TOTAL STREAM AREA(ACRES) =     1.90
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      6.64

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       23.85     8.44        5.132          6.70
      2        6.64    10.02        4.593          1.90

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       29.44     8.44       5.132
      2       27.99    10.02       4.593

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      29.44   Tc(MIN.) =    8.44
```

```
  TOTAL AREA(ACRES) =        8.6
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    724.00 =    1066.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE      1.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    89.40  DOWNSTREAM(FEET) =    88.00
  FLOW LENGTH(FEET) =    53.20   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  16.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.43
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.44
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =    8.51
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      1.00 =    1120.05 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    723.00 TO NODE    724.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.104
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.7208
  SUBAREA AREA(ACRES) =    0.65   SUBAREA RUNOFF(CFS) =    2.59
  TOTAL AREA(ACRES) =        9.2   TOTAL RUNOFF(CFS) =      34.03
  TC(MIN.) =    8.51

****************************************************************************
  FLOW PROCESS FROM NODE    436.00 TO NODE      1.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.104
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.6804
  SUBAREA AREA(ACRES) =    1.13   SUBAREA RUNOFF(CFS) =    2.02
  TOTAL AREA(ACRES) =       10.4   TOTAL RUNOFF(CFS) =      36.05
  TC(MIN.) =    8.51

+----------------------------------------------------------------------------+
| Discharge from basin                                                       |
|                                                                            |
|                                                                            |
+----------------------------------------------------------------------------+

****************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    83.00  DOWNSTREAM(FEET) =    82.30
  FLOW LENGTH(FEET) =    35.40   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  19.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  11.71
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      36.05
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =    8.56
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      2.00 =    1155.45 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  11
```

```
------------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
==============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       36.05     8.56       5.085       10.38
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      2.00 =    1155.45 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        7.81     7.09       5.740        4.38
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      2.00 =    1889.70 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      37.68       7.09        5.740
      2      42.97       8.56        5.085

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      42.97   Tc(MIN.) =    8.56
  TOTAL AREA(ACRES) =       14.8

******************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  12
------------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
==============================================================================

******************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      3.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     72.60  DOWNSTREAM(FEET) =     67.90
  CHANNEL LENGTH THRU SUBAREA(FEET) =   377.00   CHANNEL SLOPE =  0.0125
  CHANNEL BASE(FEET) =   25.00   "Z" FACTOR =  29.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   5.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.338
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .2900
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      44.39
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   2.63
  AVERAGE FLOW DEPTH(FEET) =   0.45   TRAVEL TIME(MIN.) =   2.39
  Tc(MIN.) =   10.95
  SUBAREA AREA(ACRES) =     2.25       SUBAREA RUNOFF(CFS) =    2.83
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.564
  TOTAL AREA(ACRES) =       17.0         PEAK FLOW RATE(CFS) =      42.97

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.44   FLOW VELOCITY(FEET/SEC.) =   2.60
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      3.00 =    2266.70 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE      4.00 TO NODE      3.00 IS CODE =  81
------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.338
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.5528
  SUBAREA AREA(ACRES) =    0.88   SUBAREA RUNOFF(CFS) =    1.26
```

```
  TOTAL AREA(ACRES) =       17.9   TOTAL RUNOFF(CFS) =      42.97
  TC(MIN.) =   10.95
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       17.9  TC(MIN.) =     10.95
  PEAK FLOW RATE(CFS)   =      42.97
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Mitigated

```
**************************************************************************

            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            Reference: SAN DIEGO COUNTY FLOOD CONTROL DISTRICT
                         2003,1985,1981 HYDROLOGY MANUAL
          (c) Copyright 1982-2015 Advanced Engineering Software (aes)
              Ver. 22.0 Release Date: 07/01/2015  License ID 1239

                          Analysis prepared by:




 ************************* DESCRIPTION OF STUDY *************************
* Pacifica Elementry Proposed hydrology Analysis                         *
* 100 Year                                                               *
*                                                                        *
 **************************************************************************

  FILE NAME: R:\1714\HYD\DR\CALCS\AES\PR-MIT\MIT.DAT
  TIME/DATE OF STUDY: 10:54 03/23/2023
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  2003 SAN DIEGO MANUAL CRITERIA

  USER SPECIFIED STORM EVENT(YEAR) = 100.00
  6-HOUR DURATION PRECIPITATION (INCHES) =   2.730
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.90
  SAN DIEGO HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: USE MODIFIED RATIONAL METHOD PROCEDURES FOR CONFLUENCE ANALYSIS
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   14.0      9.0    0.020/0.018/0.020   0.33    2.00 0.0313 0.125 0.0160
  2   14.0      9.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0160
  3   12.0      6.0    0.020/0.020/0.020   0.50    1.50 0.0313 0.125 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    402.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   165.00
  UPSTREAM ELEVATION(FEET) =    134.00
  DOWNSTREAM ELEVATION(FEET) =    105.00
  ELEVATION DIFFERENCE(FEET) =     29.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =   100.00
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
```

```
  SUBAREA RUNOFF(CFS) =      0.35
  TOTAL AREA(ACRES) =      0.16   TOTAL RUNOFF(CFS) =      0.35

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    404.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    105.00  DOWNSTREAM(FEET) =    104.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    58.00   CHANNEL SLOPE =  0.0172
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.35
  FLOW VELOCITY(FEET/SEC.) =   2.21   FLOW DEPTH(FEET) =   0.07
  TRAVEL TIME(MIN.) =   0.44   Tc(MIN.) =    6.70
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    404.00 =     223.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    404.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.953
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.33   SUBAREA RUNOFF(CFS) =    0.69
  TOTAL AREA(ACRES) =        0.5   TOTAL RUNOFF(CFS) =       1.02
  TC(MIN.) =    6.70

****************************************************************************
  FLOW PROCESS FROM NODE    404.00 TO NODE    700.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.50  DOWNSTREAM(FEET) =    91.90
  FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.64
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.02
  PIPE TRAVEL TIME(MIN.) =   0.73    Tc(MIN.) =    7.44
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    700.00 =     383.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    302.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    70.00
  UPSTREAM ELEVATION(FEET) =    105.60
  DOWNSTREAM ELEVATION(FEET) =    104.90
  ELEVATION DIFFERENCE(FEET) =      0.70
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    3.012
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    70.00
```

```
          (Reference: Table 3-1B of Hydrology Manual)
          THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.65
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.65

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  3 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  104.90  DOWNSTREAM ELEVATION(FEET) =  102.00
  STREET LENGTH(FEET) =   151.94   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 12.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   6.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0150

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.10
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.24
    HALFSTREET FLOOD WIDTH(FEET) =    5.61
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.43
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.58
  STREET FLOW TRAVEL TIME(MIN.) =   1.04   Tc(MIN.) =    4.05
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.900
  SUBAREA AREA(ACRES) =    0.45      SUBAREA RUNOFF(CFS) =    2.91
  TOTAL AREA(ACRES) =        0.6        PEAK FLOW RATE(CFS) =       3.56

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.27   HALFSTREET FLOOD WIDTH(FEET) =   7.36
  FLOW VELOCITY(FEET/SEC.) =  2.70   DEPTH*VELOCITY(FT*FT/SEC.) =   0.74
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     221.94 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    4.05
  RAINFALL INTENSITY(INCH/HR) =   7.19
  TOTAL STREAM AREA(ACRES) =     0.55
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      3.56

****************************************************************************
  FLOW PROCESS FROM NODE    306.00 TO NODE    308.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    90.90
  UPSTREAM ELEVATION(FEET) =    127.00
```

```
  DOWNSTREAM ELEVATION(FEET) =    106.00
  ELEVATION DIFFERENCE(FEET) =     21.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.373
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.151
  SUBAREA RUNOFF(CFS) =      0.18
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.18

****************************************************************************
  FLOW PROCESS FROM NODE    308.00 TO NODE    310.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    106.00  DOWNSTREAM(FEET) =    104.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.70   CHANNEL SLOPE =  0.0128
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.18
  FLOW VELOCITY(FEET/SEC.) =   1.55   FLOW DEPTH(FEET) =   0.06
  TRAVEL TIME(MIN.) =   1.68   Tc(MIN.) =    8.06
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    310.00 =     247.60 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    308.00 TO NODE    310.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.288
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .5500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.4824
  SUBAREA AREA(ACRES) =    0.27   SUBAREA RUNOFF(CFS) =    0.79
  TOTAL AREA(ACRES) =        0.4   TOTAL RUNOFF(CFS) =       0.94
  TC(MIN.) =    8.06

****************************************************************************
  FLOW PROCESS FROM NODE    310.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.40  DOWNSTREAM(FEET) =    93.10
  FLOW LENGTH(FEET) =    27.50   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.67
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.94
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    8.18
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    304.00 =     275.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.18
  RAINFALL INTENSITY(INCH/HR) =   5.24
  TOTAL STREAM AREA(ACRES) =     0.37
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.94

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
```

```
     1        3.56     4.05        7.193          0.55
     2        0.94     8.18        5.236          0.37

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        4.03     4.05       7.193
      2        3.54     8.18       5.236

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       4.03   Tc(MIN.) =    4.05
  TOTAL AREA(ACRES) =        0.9
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    304.00 =     275.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    700.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.40  DOWNSTREAM(FEET) =    90.30
  FLOW LENGTH(FEET) =   311.20   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.33
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.03
  PIPE TRAVEL TIME(MIN.) =   0.97    Tc(MIN.) =    5.03
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    700.00 =     586.30 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================
  ***MEMORY BANK #  1 IS FULL. THEREFORE, MAIN-STREAM MEMORY
     DATA CAN NOT BE COPIED ONTO IT - PROCESS IGNORED.***

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        4.03     5.03       7.168        0.92
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    700.00 =     586.30 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.02     7.44       5.568        0.49
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    700.00 =     383.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1       4.72       5.03       7.168
      2       4.15       7.44       5.568

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       4.72   Tc(MIN.) =    5.03
  TOTAL AREA(ACRES) =        1.4
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    700.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   101.40  DOWNSTREAM(FEET) =    86.20
  FLOW LENGTH(FEET) =   419.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   6.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.91
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.72
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =    5.81
  LONGEST FLOWPATH FROM NODE    306.00 TO NODE    701.00 =    1005.30 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    701.00 TO NODE    701.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    406.00 TO NODE    408.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    140.50
  DOWNSTREAM ELEVATION(FEET) =    114.50
  ELEVATION DIFFERENCE(FEET) =     26.00
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    408.00 TO NODE    410.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    114.50  DOWNSTREAM(FEET) =    106.50
  CHANNEL LENGTH THRU SUBAREA(FEET) =   239.80   CHANNEL SLOPE =  0.0334
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   2.13   FLOW DEPTH(FEET) =   0.05
  TRAVEL TIME(MIN.) =   1.87   Tc(MIN.) =    8.14
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    410.00 =     339.80 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    408.00 TO NODE    410.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.253
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
```

```
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.49   SUBAREA RUNOFF(CFS) =    0.90
  TOTAL AREA(ACRES) =        0.6   TOTAL RUNOFF(CFS) =       1.08
  TC(MIN.) =    8.14

****************************************************************************
  FLOW PROCESS FROM NODE    410.00 TO NODE    416.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   100.00  DOWNSTREAM(FEET) =    98.70
  FLOW LENGTH(FEET) =   596.60   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   2.15
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.08
  PIPE TRAVEL TIME(MIN.) =   4.63    Tc(MIN.) =   12.77
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    416.00 =     936.40 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    412.00 TO NODE    416.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.928
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.08   SUBAREA RUNOFF(CFS) =    0.11
  TOTAL AREA(ACRES) =        0.7   TOTAL RUNOFF(CFS) =       1.08
  TC(MIN.) =   12.77
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    416.00 TO NODE    701.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    98.70  DOWNSTREAM(FEET) =    86.20
  FLOW LENGTH(FEET) =   524.40   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.02
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.08
  PIPE TRAVEL TIME(MIN.) =   1.74    Tc(MIN.) =   14.51
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    701.00 =    1460.80 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.08    14.51       3.618        0.67
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    701.00 =    1460.80 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        4.72     5.81       6.528        1.41
```

```
 LONGEST FLOWPATH FROM NODE    306.00 TO NODE    701.00 =    1005.30 FEET.

 ** PEAK FLOW RATE TABLE **
 STREAM    RUNOFF       Tc      INTENSITY
 NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
     1       5.15       5.81        6.528
     2       3.70      14.51        3.618

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       5.15   Tc(MIN.) =    5.81
 TOTAL AREA(ACRES) =        2.1

****************************************************************************
 FLOW PROCESS FROM NODE    700.00 TO NODE    701.00 IS CODE =  12
----------------------------------------------------------------------------
 >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    701.00 TO NODE    428.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    86.20  DOWNSTREAM(FEET) =    84.20
 FLOW LENGTH(FEET) =   202.40   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   9.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.66
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.15
 PIPE TRAVEL TIME(MIN.) =   0.60    Tc(MIN.) =    6.41
 LONGEST FLOWPATH FROM NODE    406.00 TO NODE    428.00 =    1663.20 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    428.00 TO NODE    428.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.41
 RAINFALL INTENSITY(INCH/HR) =   6.13
 TOTAL STREAM AREA(ACRES) =     2.08
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      5.15

****************************************************************************
 FLOW PROCESS FROM NODE    414.00 TO NODE    424.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3500
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =    68.55
 UPSTREAM ELEVATION(FEET) =    135.00
 DOWNSTREAM ELEVATION(FEET) =     99.40
 ELEVATION DIFFERENCE(FEET) =     35.60
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.188
 WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.023
 SUBAREA RUNOFF(CFS) =      0.25
 TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.25

****************************************************************************
 FLOW PROCESS FROM NODE    424.00 TO NODE    428.00 IS CODE =  51
----------------------------------------------------------------------------
 >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
```

```
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     99.40  DOWNSTREAM(FEET) =     96.70
  CHANNEL LENGTH THRU SUBAREA(FEET) =   177.06   CHANNEL SLOPE =  0.0152
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.25
  FLOW VELOCITY(FEET/SEC.) =   1.81   FLOW DEPTH(FEET) =   0.06
  TRAVEL TIME(MIN.) =   1.63   Tc(MIN.) =    6.82
  LONGEST FLOWPATH FROM NODE    414.00 TO NODE    428.00 =     245.61 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    424.00 TO NODE    428.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.887
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    0.29   SUBAREA RUNOFF(CFS) =    0.60
  TOTAL AREA(ACRES) =        0.4   TOTAL RUNOFF(CFS) =       0.80
  TC(MIN.) =    6.82

****************************************************************************
  FLOW PROCESS FROM NODE    428.00 TO NODE    428.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.82
  RAINFALL INTENSITY(INCH/HR) =   5.89
  TOTAL STREAM AREA(ACRES) =     0.39
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.80

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        5.15     6.41        6.130          2.08
      2        0.80     6.82        5.887          0.39

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        5.91     6.41       6.130
      2        5.75     6.82       5.887

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       5.91   Tc(MIN.) =    6.41
  TOTAL AREA(ACRES) =        2.5
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE    428.00 =    1663.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    428.00 TO NODE      2.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    84.20  DOWNSTREAM(FEET) =    82.30
  FLOW LENGTH(FEET) =   226.50   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.50
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.91
```

```
  PIPE TRAVEL TIME(MIN.) =   0.69    Tc(MIN.) =    7.09
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      2.00 =    1889.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    430.00 TO NODE    432.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    130.50
  DOWNSTREAM ELEVATION(FEET) =    121.00
  ELEVATION DIFFERENCE(FEET) =      9.50
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.375
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.150
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    432.00 TO NODE    434.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    128.70  DOWNSTREAM(FEET) =     94.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   663.10   CHANNEL SLOPE =  0.0523
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   2.52   FLOW DEPTH(FEET) =   0.04
  TRAVEL TIME(MIN.) =   4.38   Tc(MIN.) =   10.76
  LONGEST FLOWPATH FROM NODE    430.00 TO NODE    434.00 =     763.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    432.00 TO NODE    434.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.388
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
  SUBAREA AREA(ACRES) =    1.81   SUBAREA RUNOFF(CFS) =    2.78
  TOTAL AREA(ACRES) =        1.9   TOTAL RUNOFF(CFS) =       2.93
  TC(MIN.) =   10.76

****************************************************************************
  FLOW PROCESS FROM NODE    434.00 TO NODE      2.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    94.00  DOWNSTREAM(FEET) =    82.30
  FLOW LENGTH(FEET) =   124.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.94
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.93
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =   10.95
```

 LONGEST FLOWPATH FROM NODE   430.00 TO NODE   2.00 =   887.10 FEET.

****
 FLOW PROCESS FROM NODE   2.00 TO NODE   2.00 IS CODE = 11

 >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
==

 ** MAIN STREAM CONFLUENCE DATA **
 STREAM   RUNOFF   Tc   INTENSITY   AREA
 NUMBER   (CFS)   (MIN.)   (INCH/HOUR)   (ACRE)
     1   2.93   10.95   4.339   1.91
 LONGEST FLOWPATH FROM NODE   430.00 TO NODE   2.00 =   887.10 FEET.

 ** MEMORY BANK # 1 CONFLUENCE DATA **
 STREAM   RUNOFF   Tc   INTENSITY   AREA
 NUMBER   (CFS)   (MIN.)   (INCH/HOUR)   (ACRE)
     1   5.91   7.09   5.740   2.47
 LONGEST FLOWPATH FROM NODE   406.00 TO NODE   2.00 =   1889.70 FEET.

 ** PEAK FLOW RATE TABLE **
 STREAM   RUNOFF   Tc   INTENSITY
 NUMBER   (CFS)   (MIN.)   (INCH/HOUR)
     1   7.81   7.09   5.740
     2   7.40   10.95   4.339

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =   7.81   Tc(MIN.) =   7.09
 TOTAL AREA(ACRES) =   4.4

****
 FLOW PROCESS FROM NODE   2.00 TO NODE   2.00 IS CODE = 12

 >>>>>CLEAR MEMORY BANK # 1 <<<<<
==

****
 FLOW PROCESS FROM NODE   2.00 TO NODE   2.00 IS CODE = 10

 >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
==

+--+
| Starting hydrology analysis for area drains towards the biofiltration |
| \detention basin |
| |
+--+

****
 FLOW PROCESS FROM NODE   130.00 TO NODE   132.00 IS CODE = 21

 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3500
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   84.20
 UPSTREAM ELEVATION(FEET) =   128.00
 DOWNSTREAM ELEVATION(FEET) =   105.00
 ELEVATION DIFFERENCE(FEET) =   23.00
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =   5.750
 WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) = 6.573
 SUBAREA RUNOFF(CFS) =   0.23
 TOTAL AREA(ACRES) =   0.10   TOTAL RUNOFF(CFS) =   0.23

****
 FLOW PROCESS FROM NODE   132.00 TO NODE   134.00 IS CODE = 51

```
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    107.00  DOWNSTREAM(FEET) =    105.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    96.00   CHANNEL SLOPE =  0.0208
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.23
  FLOW VELOCITY(FEET/SEC.) =   1.94   FLOW DEPTH(FEET) =   0.06
  TRAVEL TIME(MIN.) =   0.83   Tc(MIN.) =    6.58
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    134.00 =     180.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    132.00 TO NODE    134.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.027
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.3079
  SUBAREA AREA(ACRES) =    0.53   SUBAREA RUNOFF(CFS) =    0.96
  TOTAL AREA(ACRES) =        0.6   TOTAL RUNOFF(CFS) =       1.17
  TC(MIN.) =    6.58

****************************************************************************
  FLOW PROCESS FROM NODE    134.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    97.50  DOWNSTREAM(FEET) =    96.90
  FLOW LENGTH(FEET) =    41.90   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.30
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.17
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =    6.74
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    104.00 =     222.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.74
  RAINFALL INTENSITY(INCH/HR) =   5.93
  TOTAL STREAM AREA(ACRES) =     0.63
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.17

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    102.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    74.30
  UPSTREAM ELEVATION(FEET) =    104.30
  DOWNSTREAM ELEVATION(FEET) =    102.86
  ELEVATION DIFFERENCE(FEET) =      1.44
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    2.489
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
```

```
  SUBAREA RUNOFF(CFS) =      0.65
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.65

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    104.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  102.86  DOWNSTREAM ELEVATION(FEET) =  100.99
  STREET LENGTH(FEET) =    95.40   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0160

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.33
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.21
    HALFSTREET FLOOD WIDTH(FEET) =    4.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.15
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.46
  STREET FLOW TRAVEL TIME(MIN.) =   0.74   Tc(MIN.) =    3.23
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .9000
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.900
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    1.36
  TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       2.01

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.24   HALFSTREET FLOOD WIDTH(FEET) =   5.67
  FLOW VELOCITY(FEET/SEC.) =  2.28   DEPTH*VELOCITY(FT*FT/SEC.) =   0.55
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =     169.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    3.23
  RAINFALL INTENSITY(INCH/HR) =   7.19
  TOTAL STREAM AREA(ACRES) =     0.31
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.01

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        1.17     6.74        5.933          0.63
      2        2.01     3.23        7.193          0.31

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        2.57     3.23       7.193
```

```
     2        2.82     6.74       5.933

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       2.82   Tc(MIN.) =    6.74
  TOTAL AREA(ACRES) =        0.9
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    104.00 =     222.10 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    703.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    96.60  DOWNSTREAM(FEET) =    96.40
  FLOW LENGTH(FEET) =    12.80   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.82
  PIPE TRAVEL TIME(MIN.) =   0.04    Tc(MIN.) =    6.78
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    703.00 =     234.90 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    703.00 TO NODE    703.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.78
  RAINFALL INTENSITY(INCH/HR) =   5.91
  TOTAL STREAM AREA(ACRES) =     0.94
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.82

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    116.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    103.70
  DOWNSTREAM ELEVATION(FEET) =    102.95
  ELEVATION DIFFERENCE(FEET) =      0.75
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.704
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.55
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.55

****************************************************************************
  FLOW PROCESS FROM NODE    116.00 TO NODE    118.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  2 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  102.95  DOWNSTREAM ELEVATION(FEET) =  101.17
  STREET LENGTH(FEET) =    95.40   CURB HEIGHT(INCHES) =  6.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
```

```
 Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
 Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0160

   **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.11
   STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
   STREET FLOW DEPTH(FEET) =  0.20
   HALFSTREET FLOOD WIDTH(FEET) =    3.93
   AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.04
   PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.42
 STREET FLOW TRAVEL TIME(MIN.) =   0.78   Tc(MIN.) =    5.48
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.777
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .7600
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT =  0.760
 SUBAREA AREA(ACRES) =    0.22      SUBAREA RUNOFF(CFS) =    1.13
 TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       1.65

 END OF SUBAREA STREET FLOW HYDRAULICS:
 DEPTH(FEET) = 0.23   HALFSTREET FLOOD WIDTH(FEET) =   5.11
 FLOW VELOCITY(FEET/SEC.) =  2.18   DEPTH*VELOCITY(FT*FT/SEC.) =   0.50
 LONGEST FLOWPATH FROM NODE    114.00 TO NODE    118.00 =     160.40 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    118.00 TO NODE    703.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    96.60  DOWNSTREAM(FEET) =    96.40
 FLOW LENGTH(FEET) =    24.00   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   5.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   3.90
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       1.65
 PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =    5.59
 LONGEST FLOWPATH FROM NODE    114.00 TO NODE    703.00 =     184.40 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    703.00 TO NODE    703.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    5.59
 RAINFALL INTENSITY(INCH/HR) =   6.70
 TOTAL STREAM AREA(ACRES) =     0.32
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.65

 ** CONFLUENCE DATA **
 STREAM     RUNOFF       Tc      INTENSITY      AREA
 NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
     1        2.82     6.78        5.912          0.94
     2        1.65     5.59        6.697          0.32

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
 STREAM     RUNOFF      Tc      INTENSITY
 NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
     1        4.14     5.59       6.697
     2        4.28     6.78       5.912

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       4.28   Tc(MIN.) =    6.78
```

```
  TOTAL AREA(ACRES) =        1.3
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    703.00 =     234.90 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    703.00 TO NODE    706.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    96.40  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =   150.70   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.55
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.28
  PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    7.23
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    706.00 =     385.60 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    706.00 TO NODE    706.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  3
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.23
  RAINFALL INTENSITY(INCH/HR) =   5.67
  TOTAL STREAM AREA(ACRES) =     1.26
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      4.28

****************************************************************************
  FLOW PROCESS FROM NODE    138.00 TO NODE    140.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  UPSTREAM ELEVATION(FEET) =    130.00
  DOWNSTREAM ELEVATION(FEET) =    109.50
  ELEVATION DIFFERENCE(FEET) =     20.50
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    6.267
  WARNING: THE MAXIMUM OVERLAND FLOW SLOPE, 10.%, IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.218
  SUBAREA RUNOFF(CFS) =      0.22
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.22

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    142.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    109.50  DOWNSTREAM(FEET) =     96.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =    71.70   CHANNEL SLOPE =  0.1883
  CHANNEL BASE(FEET) =    2.00   "Z" FACTOR =   2.000
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  CHANNEL FLOW THRU SUBAREA(CFS) =       0.22
  FLOW VELOCITY(FEET/SEC.) =   3.83   FLOW DEPTH(FEET) =   0.03
  TRAVEL TIME(MIN.) =   0.31   Tc(MIN.) =    6.58
  LONGEST FLOWPATH FROM NODE    138.00 TO NODE    142.00 =     171.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    142.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
```

```
 100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.026
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3500
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT = 0.3500
 SUBAREA AREA(ACRES) =    0.11   SUBAREA RUNOFF(CFS) =    0.23
 TOTAL AREA(ACRES) =        0.2   TOTAL RUNOFF(CFS) =       0.44
 TC(MIN.) =    6.58

****************************************************************************
 FLOW PROCESS FROM NODE    142.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    96.00  DOWNSTREAM(FEET) =    94.80
 FLOW LENGTH(FEET) =     7.30   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   1.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.61
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       0.44
 PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =    6.59
 LONGEST FLOWPATH FROM NODE    138.00 TO NODE    108.00 =     179.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.017
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .7700
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT = 0.4659
 SUBAREA AREA(ACRES) =    0.08   SUBAREA RUNOFF(CFS) =    0.37
 TOTAL AREA(ACRES) =        0.3   TOTAL RUNOFF(CFS) =       0.81
 TC(MIN.) =    6.59

****************************************************************************
 FLOW PROCESS FROM NODE    108.00 TO NODE    706.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    95.00  DOWNSTREAM(FEET) =    94.80
 FLOW LENGTH(FEET) =    13.10   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   3.95
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       0.81
 PIPE TRAVEL TIME(MIN.) =   0.06    Tc(MIN.) =    6.65
 LONGEST FLOWPATH FROM NODE    138.00 TO NODE    706.00 =     192.10 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    108.00 TO NODE    706.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  3
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    6.65
 RAINFALL INTENSITY(INCH/HR) =   5.98
 TOTAL STREAM AREA(ACRES) =     0.29
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      0.81

****************************************************************************
 FLOW PROCESS FROM NODE    200.00 TO NODE    202.00 IS CODE =  21
```

```
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    105.65
  DOWNSTREAM ELEVATION(FEET) =    104.80
  ELEVATION DIFFERENCE(FEET) =      0.85
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.247
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    204.00 IS CODE =  62
------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
==============================================================================
  UPSTREAM ELEVATION(FEET) =  104.80  DOWNSTREAM ELEVATION(FEET) =  102.70
  STREET LENGTH(FEET) =   237.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    8.97
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.88
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.54
  STREET FLOW TRAVEL TIME(MIN.) =   2.11   Tc(MIN.) =    6.35
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.164
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.780
  SUBAREA AREA(ACRES) =    0.49      SUBAREA RUNOFF(CFS) =    2.36
  TOTAL AREA(ACRES) =        0.6        PEAK FLOW RATE(CFS) =       2.84

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.33   HALFSTREET FLOOD WIDTH(FEET) =  11.08
  FLOW VELOCITY(FEET/SEC.) =  2.10   DEPTH*VELOCITY(FT*FT/SEC.) =   0.69
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    706.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    97.10  DOWNSTREAM(FEET) =    94.80
  FLOW LENGTH(FEET) =   308.50   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   7.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.36
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.84
  PIPE TRAVEL TIME(MIN.) =   1.18    Tc(MIN.) =    7.53
```

```
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    706.00 =     610.50 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    706.00 TO NODE    706.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  3
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  3 ARE:
 TIME OF CONCENTRATION(MIN.) =    7.53
 RAINFALL INTENSITY(INCH/HR) =   5.52
 TOTAL STREAM AREA(ACRES) =     0.59
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.84

 ** CONFLUENCE DATA **
 STREAM     RUNOFF       Tc      INTENSITY      AREA
 NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
     1        4.28     7.23        5.670          1.26
     2        0.81     6.65        5.984          0.29
     3        2.84     7.53        5.523          0.59

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  3 STREAMS.

 ** PEAK FLOW RATE TABLE **
 STREAM     RUNOFF      Tc      INTENSITY
 NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
     1        7.37     6.65       5.984
     2        7.77     7.23       5.670
     3        7.76     7.53       5.523

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       7.77   Tc(MIN.) =    7.23
 TOTAL AREA(ACRES) =        2.1
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    706.00 =     610.50 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    706.00 TO NODE    708.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    97.10  DOWNSTREAM(FEET) =    94.80
 FLOW LENGTH(FEET) =    51.75   MANNING'S N =  0.013
 ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
 DEPTH OF FLOW IN  18.0 INCH PIPE IS   7.6 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  11.00
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       7.77
 PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =    7.31
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    708.00 =     662.25 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    144.00 TO NODE    708.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.631
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .3500
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT = 0.6011
 SUBAREA AREA(ACRES) =    0.10   SUBAREA RUNOFF(CFS) =    0.20
 TOTAL AREA(ACRES) =        2.2   TOTAL RUNOFF(CFS) =       7.77
 TC(MIN.) =    7.31
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
```

```
  FLOW PROCESS FROM NODE    708.00 TO NODE    712.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    94.20  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    70.30   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  12.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.22
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.77
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =    7.50
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    712.00 =     732.55 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    712.00 TO NODE    712.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.50
  RAINFALL INTENSITY(INCH/HR) =   5.54
  TOTAL STREAM AREA(ACRES) =     2.24
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      7.77

****************************************************************************
  FLOW PROCESS FROM NODE    162.00 TO NODE    164.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    103.60
  DOWNSTREAM ELEVATION(FEET) =    102.95
  ELEVATION DIFFERENCE(FEET) =      0.65
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.644
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    164.00 TO NODE    166.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  102.95  DOWNSTREAM ELEVATION(FEET) =   98.60
  STREET LENGTH(FEET) =   435.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       2.40
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.26
    HALFSTREET FLOOD WIDTH(FEET) =    7.29
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.83
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.47
```

```
  STREET FLOW TRAVEL TIME(MIN.) =   3.97   Tc(MIN.) =    8.61
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.066
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.762
  SUBAREA AREA(ACRES) =    0.94      SUBAREA RUNOFF(CFS) =    3.62
  TOTAL AREA(ACRES) =        1.0        PEAK FLOW RATE(CFS) =       4.01

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.29   HALFSTREET FLOOD WIDTH(FEET) =   9.25
  FLOW VELOCITY(FEET/SEC.) =  2.05   DEPTH*VELOCITY(FT*FT/SEC.) =   0.60
  LONGEST FLOWPATH FROM NODE    162.00 TO NODE    166.00 =     500.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    166.00 TO NODE    712.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.60  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    13.20   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   8.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.81
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       4.01
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =    8.66
  LONGEST FLOWPATH FROM NODE    162.00 TO NODE    712.00 =     513.20 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    166.00 TO NODE    712.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.66
  RAINFALL INTENSITY(INCH/HR) =   5.05
  TOTAL STREAM AREA(ACRES) =     1.04
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      4.01

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        7.77     7.50        5.539          2.24
      2        4.01     8.66        5.048          1.04

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1       11.25     7.50       5.539
      2       11.10     8.66       5.048

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      11.25   Tc(MIN.) =    7.50
  TOTAL AREA(ACRES) =        3.3
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    712.00 =     732.55 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    712.00 TO NODE    718.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
```

```
  ELEVATION DATA: UPSTREAM(FEET) =    93.60  DOWNSTREAM(FEET) =    93.50
  FLOW LENGTH(FEET) =    45.30   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  18.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.87
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      11.25
  PIPE TRAVEL TIME(MIN.) =   0.20    Tc(MIN.) =    7.69
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    718.00 =     777.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    168.00 TO NODE    170.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .6700
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =    130.20
  DOWNSTREAM ELEVATION(FEET) =    129.00
  ELEVATION DIFFERENCE(FEET) =      1.20
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    5.576
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    71.00
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.704
  SUBAREA RUNOFF(CFS) =      0.45
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.45

****************************************************************************
  FLOW PROCESS FROM NODE    170.00 TO NODE    174.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  129.00  DOWNSTREAM ELEVATION(FEET) =   98.80
  STREET LENGTH(FEET) =   405.70   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.04
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.18
    HALFSTREET FLOOD WIDTH(FEET) =    3.08
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.39
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.77
  STREET FLOW TRAVEL TIME(MIN.) =   1.54   Tc(MIN.) =    7.12
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.729
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7100
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.700
  SUBAREA AREA(ACRES) =    0.29      SUBAREA RUNOFF(CFS) =    1.18
  TOTAL AREA(ACRES) =        0.4        PEAK FLOW RATE(CFS) =       1.56
```

```
  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.21   HALFSTREET FLOOD WIDTH(FEET) =   4.86
  FLOW VELOCITY(FEET/SEC.) =  4.31   DEPTH*VELOCITY(FT*FT/SEC.) =   0.89
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    174.00 =     480.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    174.00 TO NODE    718.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    93.90  DOWNSTREAM(FEET) =    92.20
  FLOW LENGTH(FEET) =    55.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   3.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.56
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =    7.27
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    718.00 =     535.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 2 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        1.56     7.27       5.652        0.39
  LONGEST FLOWPATH FROM NODE    168.00 TO NODE    718.00 =     535.70 FEET.

  ** MEMORY BANK #  2 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       11.25     7.69       5.448        3.28
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    718.00 =     777.85 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      12.19       7.27        5.652
      2      12.76       7.69        5.448

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      12.76   Tc(MIN.) =    7.69
  TOTAL AREA(ACRES) =        3.7

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    718.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    718.00 TO NODE    180.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    92.20  DOWNSTREAM(FEET) =    91.90
  FLOW LENGTH(FEET) =    48.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.93
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      12.76
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    7.83
```

```
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    180.00 =     825.85 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    180.00 TO NODE    180.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    7.83
 RAINFALL INTENSITY(INCH/HR) =   5.39
 TOTAL STREAM AREA(ACRES) =     3.67
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     12.76

****************************************************************************
 FLOW PROCESS FROM NODE    176.00 TO NODE    178.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .6700
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
 UPSTREAM ELEVATION(FEET) =    131.20
 DOWNSTREAM ELEVATION(FEET) =    129.00
 ELEVATION DIFFERENCE(FEET) =      2.20
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.683
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
 NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
 SUBAREA RUNOFF(CFS) =      0.48
 TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.48

****************************************************************************
 FLOW PROCESS FROM NODE    178.00 TO NODE    180.00 IS CODE =  62
----------------------------------------------------------------------------
 >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
 UPSTREAM ELEVATION(FEET) =  129.00  DOWNSTREAM ELEVATION(FEET) =   97.50
 STREET LENGTH(FEET) =   452.00   CURB HEIGHT(INCHES) =  4.0
 STREET HALFWIDTH(FEET) = 14.00

 DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
 INSIDE STREET CROSSFALL(DECIMAL) =  0.020
 OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

 SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
 STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
 Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
 Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

   **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.97
   STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
   STREET FLOW DEPTH(FEET) =  0.22
   HALFSTREET FLOOD WIDTH(FEET) =    5.67
   AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.40
   PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.98
 STREET FLOW TRAVEL TIME(MIN.) =   1.71   Tc(MIN.) =    6.39
  100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.138
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .7100
 S.C.S. CURVE NUMBER (AMC II) =   0
 AREA-AVERAGE RUNOFF COEFFICIENT =  0.705
 SUBAREA AREA(ACRES) =    0.68      SUBAREA RUNOFF(CFS) =    2.96
 TOTAL AREA(ACRES) =        0.8        PEAK FLOW RATE(CFS) =       3.37

 END OF SUBAREA STREET FLOW HYDRAULICS:
 DEPTH(FEET) = 0.26   HALFSTREET FLOOD WIDTH(FEET) =   7.57
 FLOW VELOCITY(FEET/SEC.) =  4.84   DEPTH*VELOCITY(FT*FT/SEC.) =   1.26
```

 LONGEST FLOWPATH FROM NODE   176.00 TO NODE   180.00 =   527.00 FEET.

****
 FLOW PROCESS FROM NODE   180.00 TO NODE   180.00 IS CODE =   1

 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==
 TOTAL NUMBER OF STREAMS = 2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:
 TIME OF CONCENTRATION(MIN.) =   6.39
 RAINFALL INTENSITY(INCH/HR) =   6.14
 TOTAL STREAM AREA(ACRES) =   0.78
 PEAK FLOW RATE(CFS) AT CONFLUENCE =   3.37

 ** CONFLUENCE DATA **
 STREAM   RUNOFF   Tc   INTENSITY   AREA
 NUMBER   (CFS)   (MIN.)   (INCH/HOUR)   (ACRE)
     1   12.76   7.83   5.388   3.67
     2   3.37   6.39   6.138   0.78

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

 ** PEAK FLOW RATE TABLE **
 STREAM   RUNOFF   Tc   INTENSITY
 NUMBER   (CFS)   (MIN.)   (INCH/HOUR)
     1   13.80   6.39   6.138
     2   15.72   7.83   5.388

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =   15.72   Tc(MIN.) =   7.83
 TOTAL AREA(ACRES) =   4.4
 LONGEST FLOWPATH FROM NODE   200.00 TO NODE   180.00 =   825.85 FEET.

****
 FLOW PROCESS FROM NODE   180.00 TO NODE   722.00 IS CODE = 31

 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==
 ELEVATION DATA: UPSTREAM(FEET) =   91.90 DOWNSTREAM(FEET) =   91.00
 FLOW LENGTH(FEET) =   159.00   MANNING'S N = 0.013
 DEPTH OF FLOW IN 24.0 INCH PIPE IS 19.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.86
 ESTIMATED PIPE DIAMETER(INCH) = 24.00   NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =   15.72
 PIPE TRAVEL TIME(MIN.) =   0.45   Tc(MIN.) =   8.28
 LONGEST FLOWPATH FROM NODE   200.00 TO NODE   722.00 =   984.85 FEET.

****
 FLOW PROCESS FROM NODE   722.00 TO NODE   722.00 IS CODE = 10

 >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 2 <<<<<
==

****
 FLOW PROCESS FROM NODE   206.00 TO NODE   208.00 IS CODE = 21

 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==
 *USER SPECIFIED(SUBAREA):
 USER-SPECIFIED RUNOFF COEFFICIENT = .7800
 S.C.S. CURVE NUMBER (AMC II) =   0
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   65.00
 UPSTREAM ELEVATION(FEET) =   103.00
 DOWNSTREAM ELEVATION(FEET) =   102.35
 ELEVATION DIFFERENCE(FEET) =   0.65
 SUBAREA OVERLAND TIME OF FLOW(MIN.) =   4.644

```
 100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
SUBAREA RUNOFF(CFS) =      0.56
TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
FLOW PROCESS FROM NODE    208.00 TO NODE    210.00 IS CODE =  62
----------------------------------------------------------------------------
>>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
UPSTREAM ELEVATION(FEET) =  102.40  DOWNSTREAM ELEVATION(FEET) =   96.80
STREET LENGTH(FEET) =   566.50   CURB HEIGHT(INCHES) =  4.0
STREET HALFWIDTH(FEET) = 14.00

DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
INSIDE STREET CROSSFALL(DECIMAL) =  0.020
OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

  **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.24
  STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
  STREET FLOW DEPTH(FEET) =  0.37
  HALFSTREET FLOOD WIDTH(FEET) =   14.36
  AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.38
  PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.87
STREET FLOW TRAVEL TIME(MIN.) =   3.97   Tc(MIN.) =    8.61
 100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.066
*USER SPECIFIED(SUBAREA):
USER-SPECIFIED RUNOFF COEFFICIENT = .7800
S.C.S. CURVE NUMBER (AMC II) =   0
AREA-AVERAGE RUNOFF COEFFICIENT =  0.780
SUBAREA AREA(ACRES) =    1.84      SUBAREA RUNOFF(CFS) =    7.27
TOTAL AREA(ACRES) =        1.9        PEAK FLOW RATE(CFS) =       7.67

END OF SUBAREA STREET FLOW HYDRAULICS:
DEPTH(FEET) = 0.39   HALFSTREET FLOOD WIDTH(FEET) =  16.82
FLOW VELOCITY(FEET/SEC.) =  2.48   DEPTH*VELOCITY(FT*FT/SEC.) =   0.97
*NOTE: INITIAL SUBAREA NOMOGRAPH WITH SUBAREA PARAMETERS,
       AND L =  566.5 FT WITH ELEVATION-DROP =   5.6 FT, IS   10.3 CFS,
       WHICH EXCEEDS THE TOP-OF-CURB STREET CAPACITY AT NODE    210.00
LONGEST FLOWPATH FROM NODE    206.00 TO NODE    210.00 =     631.50 FEET.

****************************************************************************
FLOW PROCESS FROM NODE    210.00 TO NODE    720.00 IS CODE =  31
----------------------------------------------------------------------------
>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
ELEVATION DATA: UPSTREAM(FEET) =    91.90  DOWNSTREAM(FEET) =    91.70
FLOW LENGTH(FEET) =    13.50   MANNING'S N =  0.013
DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.4 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) =   7.26
ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
PIPE-FLOW(CFS) =       7.67
PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.64
LONGEST FLOWPATH FROM NODE    206.00 TO NODE    720.00 =     645.00 FEET.

****************************************************************************
FLOW PROCESS FROM NODE    720.00 TO NODE    720.00 IS CODE =   1
----------------------------------------------------------------------------
>>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
TOTAL NUMBER OF STREAMS =  2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
```

```
  TIME OF CONCENTRATION(MIN.) =    8.64
  RAINFALL INTENSITY(INCH/HR) =   5.05
  TOTAL STREAM AREA(ACRES) =     1.94
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      7.67

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    214.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    75.00
  UPSTREAM ELEVATION(FEET) =     99.70
  DOWNSTREAM ELEVATION(FEET) =     98.90
  ELEVATION DIFFERENCE(FEET) =      0.80
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.568
  WARNING: INITIAL SUBAREA FLOW PATH LENGTH IS GREATER THAN
           THE MAXIMUM OVERLAND FLOW LENGTH =    65.67
           (Reference: Table 3-1B of Hydrology Manual)
           THE MAXIMUM OVERLAND FLOW LENGTH IS USED IN Tc CALCULATION!
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    216.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =   98.90  DOWNSTREAM ELEVATION(FEET) =   96.70
  STREET LENGTH(FEET) =   186.95   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.07
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.24
    HALFSTREET FLOOD WIDTH(FEET) =    6.65
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.88
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.46
  STREET FLOW TRAVEL TIME(MIN.) =   1.66   Tc(MIN.) =    6.22
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  6.245
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7700
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.773
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    1.01
  TOTAL AREA(ACRES) =        0.3        PEAK FLOW RATE(CFS) =       1.50

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.27   HALFSTREET FLOOD WIDTH(FEET) =   7.85
  FLOW VELOCITY(FEET/SEC.) =  2.02   DEPTH*VELOCITY(FT*FT/SEC.) =   0.54
  LONGEST FLOWPATH FROM NODE    212.00 TO NODE    216.00 =     261.95 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    720.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    91.90  DOWNSTREAM(FEET) =    91.70
  FLOW LENGTH(FEET) =    13.50   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   4.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.67
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.50
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =    6.27
  LONGEST FLOWPATH FROM NODE    212.00 TO NODE    720.00 =     275.45 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    720.00 TO NODE    720.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.27
  RAINFALL INTENSITY(INCH/HR) =   6.21
  TOTAL STREAM AREA(ACRES) =     0.31
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      1.50

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1        7.67     8.64        5.054          1.94
      2        1.50     6.27        6.214          0.31

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
      1        7.06     6.27       6.214
      2        8.88     8.64       5.054

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       8.88   Tc(MIN.) =    8.64
  TOTAL AREA(ACRES) =        2.2
  LONGEST FLOWPATH FROM NODE    206.00 TO NODE    720.00 =     645.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    720.00 TO NODE    722.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    91.70  DOWNSTREAM(FEET) =    90.40
  FLOW LENGTH(FEET) =   146.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  13.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.05
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       8.88
  PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =    9.04
  LONGEST FLOWPATH FROM NODE    206.00 TO NODE    722.00 =     791.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    722.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 2 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
```

```
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        8.88     9.04       4.908        2.25
  LONGEST FLOWPATH FROM NODE    206.00 TO NODE    722.00 =     791.00 FEET.

  ** MEMORY BANK #  2 CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       15.72     8.28       5.196        4.45
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    722.00 =     984.85 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1      23.85       8.28        5.196
      2      23.73       9.04        4.908

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      23.85   Tc(MIN.) =    8.28
  TOTAL AREA(ACRES) =        6.7

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    722.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 2 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    722.00 TO NODE    724.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    90.40  DOWNSTREAM(FEET) =    89.50
  FLOW LENGTH(FEET) =    82.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.55
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      23.85
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =    8.44
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    724.00 =    1066.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE    724.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    8.44
  RAINFALL INTENSITY(INCH/HR) =   5.13
  TOTAL STREAM AREA(ACRES) =     6.70
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     23.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    220.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    65.00
  UPSTREAM ELEVATION(FEET) =    101.55
  DOWNSTREAM ELEVATION(FEET) =    100.90
  ELEVATION DIFFERENCE(FEET) =      0.65
  SUBAREA OVERLAND TIME OF FLOW(MIN.) =    4.644
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  7.193
  NOTE: RAINFALL INTENSITY IS BASED ON Tc = 5-MINUTE.
  SUBAREA RUNOFF(CFS) =      0.56
```

```
  TOTAL AREA(ACRES) =      0.10   TOTAL RUNOFF(CFS) =      0.56

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    724.00 IS CODE =  62
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) =  101.90  DOWNSTREAM ELEVATION(FEET) =   95.40
  STREET LENGTH(FEET) =   650.00   CURB HEIGHT(INCHES) =  4.0
  STREET HALFWIDTH(FEET) = 14.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =   9.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  2
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0160
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.80
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.29
    HALFSTREET FLOOD WIDTH(FEET) =    9.04
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.01
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.59
  STREET FLOW TRAVEL TIME(MIN.) =   5.38   Tc(MIN.) =   10.02
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.593
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7600
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.761
  SUBAREA AREA(ACRES) =    1.80      SUBAREA RUNOFF(CFS) =    6.28
  TOTAL AREA(ACRES) =        1.9        PEAK FLOW RATE(CFS) =       6.64

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.34   HALFSTREET FLOOD WIDTH(FEET) =  11.83
  FLOW VELOCITY(FEET/SEC.) =  2.29   DEPTH*VELOCITY(FT*FT/SEC.) =   0.78
  *NOTE: INITIAL SUBAREA NOMOGRAPH WITH SUBAREA PARAMETERS,
         AND L =  650.0 FT WITH ELEVATION-DROP =   6.5 FT, IS    9.8 CFS,
         WHICH EXCEEDS THE TOP-OF-CURB STREET CAPACITY AT NODE    724.00
  LONGEST FLOWPATH FROM NODE    218.00 TO NODE    724.00 =     715.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE    724.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   10.02
  RAINFALL INTENSITY(INCH/HR) =   4.59
  TOTAL STREAM AREA(ACRES) =     1.90
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      6.64

  ** CONFLUENCE DATA **
  STREAM     RUNOFF       Tc      INTENSITY      AREA
  NUMBER      (CFS)     (MIN.)   (INCH/HOUR)    (ACRE)
      1       23.85     8.44        5.132          6.70
      2        6.64    10.02        4.593          1.90

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
  STREAM     RUNOFF      Tc      INTENSITY
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)
```

```
      1       29.44     8.44       5.132
      2       27.99    10.02       4.593

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      29.44   Tc(MIN.) =    8.44
  TOTAL AREA(ACRES) =        8.6
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    724.00 =    1066.85 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    724.00 TO NODE      1.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    89.40  DOWNSTREAM(FEET) =    88.00
  FLOW LENGTH(FEET) =    53.20   MANNING'S N =  0.013
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  16.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.43
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.44
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =    8.51
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      1.00 =    1120.05 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    723.00 TO NODE    724.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.104
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .7800
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.7208
  SUBAREA AREA(ACRES) =    0.65   SUBAREA RUNOFF(CFS) =    2.59
  TOTAL AREA(ACRES) =        9.2   TOTAL RUNOFF(CFS) =      34.03
  TC(MIN.) =    8.51

****************************************************************************
  FLOW PROCESS FROM NODE    436.00 TO NODE      1.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  5.104
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3500
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.6804
  SUBAREA AREA(ACRES) =    1.13   SUBAREA RUNOFF(CFS) =    2.02
  TOTAL AREA(ACRES) =       10.4   TOTAL RUNOFF(CFS) =      36.05
  TC(MIN.) =    8.51

****************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      1.00 IS CODE =   7
----------------------------------------------------------------------------
  >>>>>USER SPECIFIED HYDROLOGY INFORMATION AT NODE<<<<<
============================================================================
  USER-SPECIFIED VALUES ARE AS FOLLOWS:
  TC(MIN) =  31.51   RAIN INTENSITY(INCH/HOUR) =  2.19
  TOTAL AREA(ACRES) =    10.40   TOTAL RUNOFF(CFS) =      3.32

+----------------------------------------------------------------------------+
| Discharge from basin                                                       |
|                                                                            |
|                                                                            |
+----------------------------------------------------------------------------+

****************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    83.00  DOWNSTREAM(FEET) =    82.30
  FLOW LENGTH(FEET) =    35.40   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 18.000
  DEPTH OF FLOW IN  18.0 INCH PIPE IS   6.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.50
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       3.32
  PIPE TRAVEL TIME(MIN.) =   0.09    Tc(MIN.) =   31.60
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      2.00 =    1155.45 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        3.32    31.60       2.190       10.40
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE      2.00 =    1155.45 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1        7.81     7.09       5.740        4.38
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      2.00 =    1889.70 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1       8.55       7.09        5.740
      2       6.30      31.60        2.190

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       8.55   Tc(MIN.) =    7.09
  TOTAL AREA(ACRES) =       14.8

****************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      2.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE      2.00 TO NODE      3.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =     72.60  DOWNSTREAM(FEET) =     67.90
  CHANNEL LENGTH THRU SUBAREA(FEET) =   377.00   CHANNEL SLOPE =  0.0125
  CHANNEL BASE(FEET) =   25.00   "Z" FACTOR =  29.000
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   5.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.358
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .2900
  S.C.S. CURVE NUMBER (AMC II) =   0
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       9.97
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.66
  AVERAGE FLOW DEPTH(FEET) =   0.20   TRAVEL TIME(MIN.) =   3.78
  Tc(MIN.) =   10.87
  SUBAREA AREA(ACRES) =     2.25       SUBAREA RUNOFF(CFS) =    2.84
  AREA-AVERAGE RUNOFF COEFFICIENT =  0.238
  TOTAL AREA(ACRES) =       17.0         PEAK FLOW RATE(CFS) =      17.65
```

```
  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.27   FLOW VELOCITY(FEET/SEC.) =   1.99
  LONGEST FLOWPATH FROM NODE    406.00 TO NODE      3.00 =    2266.70 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE      4.00 TO NODE      3.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  4.358
  *USER SPECIFIED(SUBAREA):
  USER-SPECIFIED RUNOFF COEFFICIENT = .3300
  S.C.S. CURVE NUMBER (AMC II) =   0
  AREA-AVERAGE RUNOFF COEFFICIENT = 0.2424
  SUBAREA AREA(ACRES) =    0.88   SUBAREA RUNOFF(CFS) =    1.27
  TOTAL AREA(ACRES) =       17.9   TOTAL RUNOFF(CFS) =      18.92
  TC(MIN.) =   10.87
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       17.9  TC(MIN.) =     10.87
  PEAK FLOW RATE(CFS)   =      18.92
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

RATIONAL METHOD HYDROGRAPH PROGRAM
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RUN DATE 3/22/2023
HYDROGRAPH FILE NAME Text1
TIME OF CONCENTRATION 9 MIN.
6 HOUR RAINFALL 2.73 INCHES
BASIN AREA 10.4 ACRES
RUNOFF COEFFICIENT 0.6804
PEAK DISCHARGE 36.05 CFS

TIME (MIN) = 0	DISCHARGE (CFS) = 0
TIME (MIN) = 9	DISCHARGE (CFS) = 0
TIME (MIN) = 18	DISCHARGE (CFS) = 1.2
TIME (MIN) = 27	DISCHARGE (CFS) = 1.2
TIME (MIN) = 36	DISCHARGE (CFS) = 1.2
TIME (MIN) = 45	DISCHARGE (CFS) = 1.3
TIME (MIN) = 54	DISCHARGE (CFS) = 1.3
TIME (MIN) = 63	DISCHARGE (CFS) = 1.3
TIME (MIN) = 72	DISCHARGE (CFS) = 1.4
TIME (MIN) = 81	DISCHARGE (CFS) = 1.4
TIME (MIN) = 90	DISCHARGE (CFS) = 1.5
TIME (MIN) = 99	DISCHARGE (CFS) = 1.5
TIME (MIN) = 108	DISCHARGE (CFS) = 1.6
TIME (MIN) = 117	DISCHARGE (CFS) = 1.7
TIME (MIN) = 126	DISCHARGE (CFS) = 1.8
TIME (MIN) = 135	DISCHARGE (CFS) = 1.8
TIME (MIN) = 144	DISCHARGE (CFS) = 2
TIME (MIN) = 153	DISCHARGE (CFS) = 2
TIME (MIN) = 162	DISCHARGE (CFS) = 2.2
TIME (MIN) = 171	DISCHARGE (CFS) = 2.3
TIME (MIN) = 180	DISCHARGE (CFS) = 2.6
TIME (MIN) = 189	DISCHARGE (CFS) = 2.7
TIME (MIN) = 198	DISCHARGE (CFS) = 3.1
TIME (MIN) = 207	DISCHARGE (CFS) = 3.4
TIME (MIN) = 216	DISCHARGE (CFS) = 4.1
TIME (MIN) = 225	DISCHARGE (CFS) = 4.7
TIME (MIN) = 234	DISCHARGE (CFS) = 6.9
TIME (MIN) = 243	DISCHARGE (CFS) = 8.5
TIME (MIN) = 252	DISCHARGE (CFS) = 36.05
TIME (MIN) = 261	DISCHARGE (CFS) = 5.5
TIME (MIN) = 270	DISCHARGE (CFS) = 3.7
TIME (MIN) = 279	DISCHARGE (CFS) = 2.9
TIME (MIN) = 288	DISCHARGE (CFS) = 2.4
TIME (MIN) = 297	DISCHARGE (CFS) = 2.1
TIME (MIN) = 306	DISCHARGE (CFS) = 1.9
TIME (MIN) = 315	DISCHARGE (CFS) = 1.7
TIME (MIN) = 324	DISCHARGE (CFS) = 1.6
TIME (MIN) = 333	DISCHARGE (CFS) = 1.5
TIME (MIN) = 342	DISCHARGE (CFS) = 1.4
TIME (MIN) = 351	DISCHARGE (CFS) = 1.3
TIME (MIN) = 360	DISCHARGE (CFS) = 1.2
TIME (MIN) = 369	DISCHARGE (CFS) = 0

Basin BF-1-1

Discharge vs Elevation Table

Bottom orifice diameter:	1.5 "	Top orifice diameter:	3 "
Number:	1	Number:	2
Cg-low:	0.61	Cg-low:	0.61
invert elev:	0.50 ft	invert elev:	3.50 ft
Middle orifice diameter:	2 "	Emergency weir:	
number of orif:	1	Invert:	4.50 ft
Cg-middle:	0.61	Weir Length (ft)	10.0 ft
invert elev:	1.50 ft		

h (ft)	H/D-low -	H/D-mid -	H/D-top -	H/D-peak -	Qlow-orif (cfs)	Qlow-weir (cfs)	Qtot-low (cfs)	Qmid-orif (cfs)	Qmid-weir (cfs)	Qtot-med (cfs)	Qtop-orif (cfs)	Qtop-weir (cfs)	Qtot-top (cfs)	Qpeak-top (cfs)	Qtot (cfs)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
0.55	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0028
0.6	0.80	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0099
0.65	1.20	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0178
0.7	1.60	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0223
0.75	2.00	0.00	0.00	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0260
0.8	2.40	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0293
0.85	2.80	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0322
0.9	3.20	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0349
0.95	3.60	0.00	0.00	0.00	0.04	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0374
1	4.00	0.00	0.00	0.00	0.04	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0397
1.05	4.40	0.00	0.00	0.00	0.04	0.11	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0419
1.1	4.80	0.00	0.00	0.00	0.04	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0440
1.15	5.20	0.00	0.00	0.00	0.05	0.35	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0460
1.2	5.60	0.00	0.00	0.00	0.05	0.59	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0480
1.25	6.00	0.00	0.00	0.00	0.05	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0498
1.3	6.40	0.00	0.00	0.00	0.05	1.47	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0516
1.35	6.80	0.00	0.00	0.00	0.05	2.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0533
1.4	7.20	0.00	0.00	0.00	0.05	3.18	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0550
1.45	7.60	0.00	0.00	0.00	0.06	4.49	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0566
1.5	8.00	0.00	0.00	0.00	0.06	6.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0582
1.55	8.40	0.30	0.00	0.00	0.06	8.34	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0630
1.6	8.80	0.60	0.00	0.00	0.06	11.06	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.0733
1.65	9.20	0.90	0.00	0.00	0.06	14.44	0.06	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.0874
1.7	9.60	1.20	0.00	0.00	0.06	18.58	0.06	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.1005
1.75	10.00	1.50	0.00	0.00	0.07	23.61	0.07	0.04	0.05	0.04	0.00	0.00	0.00	0.00	0.1091
1.8	10.40	1.80	0.00	0.00	0.07	29.65	0.07	0.05	0.06	0.05	0.00	0.00	0.00	0.00	0.1165
1.85	10.80	2.10	0.00	0.00	0.07	36.86	0.07	0.06	0.07	0.06	0.00	0.00	0.00	0.00	0.1233
1.9	11.20	2.40	0.00	0.00	0.07	45.39	0.07	0.06	0.08	0.06	0.00	0.00	0.00	0.00	0.1296
1.95	11.60	2.70	0.00	0.00	0.07	55.41	0.07	0.06	0.08	0.06	0.00	0.00	0.00	0.00	0.1354
2	12.00	3.00	0.00	0.00	0.07	67.11	0.07	0.07	0.08	0.07	0.00	0.00	0.00	0.00	0.1410
2.05	12.40	3.30	0.00	0.00	0.07	80.69	0.07	0.07	0.08	0.07	0.00	0.00	0.00	0.00	0.1462
2.1	12.80	3.60	0.00	0.00	0.07	96.36	0.07	0.08	0.09	0.08	0.00	0.00	0.00	0.00	0.1513
2.15	13.20	3.90	0.00	0.00	0.08	114.36	0.08	0.08	0.12	0.08	0.00	0.00	0.00	0.00	0.1561
2.2	13.60	4.20	0.00	0.00	0.08	134.92	0.08	0.08	0.17	0.08	0.00	0.00	0.00	0.00	0.1607
2.25	14.00	4.50	0.00	0.00	0.08	158.32	0.08	0.09	0.26	0.09	0.00	0.00	0.00	0.00	0.1652
2.3	14.40	4.80	0.00	0.00	0.08	184.84	0.08	0.09	0.41	0.09	0.00	0.00	0.00	0.00	0.1696
2.35	14.80	5.10	0.00	0.00	0.08	214.77	0.08	0.09	0.62	0.09	0.00	0.00	0.00	0.00	0.1738
2.4	15.20	5.40	0.00	0.00	0.08	248.43	0.08	0.10	0.93	0.10	0.00	0.00	0.00	0.00	0.1779
2.45	15.60	5.70	0.00	0.00	0.08	286.15	0.08	0.10	1.36	0.10	0.00	0.00	0.00	0.00	0.1820
2.5	16.00	6.00	0.00	0.00	0.08	328.30	0.08	0.10	1.94	0.10	0.00	0.00	0.00	0.00	0.1859
2.55	16.40	6.30	0.00	0.00	0.08	375.25	0.08	0.11	2.71	0.11	0.00	0.00	0.00	0.00	0.1897
2.6	16.80	6.60	0.00	0.00	0.09	427.39	0.09	0.11	3.70	0.11	0.00	0.00	0.00	0.00	0.1934
2.65	17.20	6.90	0.00	0.00	0.09	485.14	0.09	0.11	4.96	0.11	0.00	0.00	0.00	0.00	0.1971
2.7	17.60	7.20	0.00	0.00	0.09	548.94	0.09	0.11	6.53	0.11	0.00	0.00	0.00	0.00	0.2007
2.75	18.00	7.50	0.00	0.00	0.09	619.25	0.09	0.12	8.47	0.12	0.00	0.00	0.00	0.00	0.2042
2.8	18.40	7.80	0.00	0.00	0.09	696.55	0.09	0.12	10.84	0.12	0.00	0.00	0.00	0.00	0.2077
2.85	18.80	8.10	0.00	0.00	0.09	781.35	0.09	0.12	13.70	0.12	0.00	0.00	0.00	0.00	0.2111
2.9	19.20	8.40	0.00	0.00	0.09	874.19	0.09	0.12	17.13	0.12	0.00	0.00	0.00	0.00	0.2144
2.95	19.60	8.70	0.00	0.00	0.09	975.61	0.09	0.12	21.20	0.12	0.00	0.00	0.00	0.00	0.2177
3	20.00	9.00	0.00	0.00	0.09	1086.19	0.09	0.13	26.00	0.13	0.00	0.00	0.00	0.00	0.2209
3.05	20.40	9.30	0.00	0.00	0.09	1206.55	0.09	0.13	31.61	0.13	0.00	0.00	0.00	0.00	0.2241
3.1	20.80	9.60	0.00	0.00	0.10	1337.31	0.10	0.13	38.14	0.13	0.00	0.00	0.00	0.00	0.2272
3.15	21.20	9.90	0.00	0.00	0.10	1479.13	0.10	0.13	45.70	0.13	0.00	0.00	0.00	0.00	0.2303
3.2	21.60	10.20	0.00	0.00	0.10	1632.69	0.10	0.14	54.39	0.14	0.00	0.00	0.00	0.00	0.2334
3.25	22.00	10.50	0.00	0.00	0.10	1798.71	0.10	0.14	64.34	0.14	0.00	0.00	0.00	0.00	0.2364
3.3	22.40	10.80	0.00	0.00	0.10	1977.93	0.10	0.14	75.67	0.14	0.00	0.00	0.00	0.00	0.2393
3.35	22.80	11.10	0.00	0.00	0.10	2171.11	0.10	0.14	88.53	0.14	0.00	0.00	0.00	0.00	0.2422
3.4	23.20	11.40	0.00	0.00	0.10	2379.06	0.10	0.14	103.06	0.14	0.00	0.00	0.00	0.00	0.2451
3.45	23.60	11.70	0.00	0.00	0.10	2602.61	0.10	0.15	119.42	0.15	0.00	0.00	0.00	0.00	0.2480
3.5	24.00	12.00	0.00	0.00	0.10	2842.60	0.10	0.15	137.77	0.15	0.00	0.00	0.00	0.00	0.2508
3.55	24.40	12.30	0.20	0.00	0.10	3099.94	0.10	0.15	158.29	0.15	0.00	0.01	0.01	0.00	0.2619
3.6	24.80	12.60	0.40	0.00	0.10	3375.54	0.10	0.15	181.17	0.15	0.00	0.03	0.03	0.00	0.2879
3.65	25.20	12.90	0.60	0.00	0.11	3670.36	0.11	0.15	206.59	0.15	0.08	0.07	0.07	0.00	0.3261
3.7	25.60	13.20	0.80	0.00	0.11	3985.37	0.11	0.16	234.76	0.16	0.13	0.11	0.11	0.00	0.3735
3.75	26.00	13.50	1.00	0.00	0.11	4321.61	0.11	0.16	265.90	0.16	0.17	0.16	0.16	0.00	0.4268
3.8	26.40	13.80	1.20	0.00	0.11	4680.11	0.11	0.16	300.23	0.16	0.20	0.22	0.20	0.00	0.4681
3.85	26.80	14.10	1.40	0.00	0.11	5061.97	0.11	0.16	337.99	0.16	0.23	0.27	0.23	0.00	0.4977
3.9	27.20	14.40	1.60	0.00	0.11	5468.31	0.11	0.16	379.44	0.16	0.25	0.32	0.25	0.00	0.5243
3.95	27.60	14.70	1.80	0.00	0.11	5900.28	0.11	0.16	424.82	0.16	0.27	0.36	0.27	0.00	0.5488
4	28.00	15.00	2.00	0.00	0.11	6359.08	0.11	0.17	474.42	0.17	0.29	0.39	0.29	0.00	0.5717

Basin BF-1-1

Discharge vs Elevation Table

Bottom orifice diameter:	1.5 "	Top orifice diameter:	3 "		
Number:	1	Number:	2		
Cg-low:	0.61	Cg-low:	0.61		
invert elev:	0.50 ft	invert elev:	3.50 ft		0.125
Middle orifice diameter:	2 "	Emergency weir:			
number of orif:	1	Invert:	4.50 ft		0.166667
Cg-middle:	0.61	Weir Length (ft)	10.0 ft		
invert elev:	1.50 ft				

h (ft)	H/D-low -	H/D-mid -	H/D-top -	H/D-peak -	Qlow-orif (cfs)	Qlow-weir (cfs)	Qtot-low (cfs)	Qmid-orif (cfs)	Qmid-weir (cfs)	Qtot-med (cfs)	Qtop-orif (cfs)	Qtop-weir (cfs)	Qtot-top (cfs)	Qpeak-top (cfs)	Qtot (cfs)
4.05	28.40	15.30	2.20	0.00	0.11	6845.93	0.11	0.17	528.52	0.17	0.31	0.42	0.31	0.00	0.5932
4.1	28.80	15.60	2.40	0.00	0.11	7362.10	0.11	0.17	587.42	0.17	0.33	0.43	0.33	0.00	0.6136
4.15	29.20	15.90	2.60	0.00	0.11	7908.88	0.11	0.17	651.41	0.17	0.35	0.44	0.35	0.00	0.6331
4.2	29.60	16.20	2.80	0.00	0.11	8487.63	0.11	0.17	720.84	0.17	0.36	0.44	0.36	0.00	0.6518
4.25	30.00	16.50	3.00	0.00	0.12	9099.71	0.12	0.17	796.03	0.17	0.38	0.44	0.38	0.00	0.6697
4.3	30.40	16.80	3.20	0.00	0.12	9746.55	0.12	0.18	877.34	0.18	0.39	0.45	0.39	0.00	0.6870
4.35	30.80	17.10	3.40	0.00	0.12	10429.61	0.12	0.18	965.12	0.18	0.41	0.47	0.41	0.00	0.7038
4.4	31.20	17.40	3.60	0.00	0.12	11150.37	0.12	0.18	1059.76	0.18	0.42	0.52	0.42	0.00	0.7200
4.45	31.60	17.70	3.80	0.00	0.12	11910.39	0.12	0.18	1161.65	0.18	0.44	0.60	0.44	0.00	0.7358
4.5	32.00	18.00	4.00	0.00	0.12	12711.23	0.12	0.18	1271.19	0.18	0.45	0.74	0.45	0.00	0.7511
4.55	32.40	18.30	4.20	0.06	0.12	13554.52	0.12	0.18	1388.80	0.18	0.46	0.95	0.46	0.37	1.1384
4.6	32.80	18.60	4.40	0.12	0.12	14441.92	0.12	0.19	1514.93	0.19	0.47	1.25	0.47	1.05	1.8338
4.65	33.20	18.90	4.60	0.18	0.12	15375.13	0.12	0.19	1650.01	0.19	0.49	1.67	0.49	1.93	2.7296
4.7	33.60	19.20	4.80	0.24	0.12	16355.92	0.12	0.19	1794.53	0.19	0.50	2.23	0.50	2.98	3.7875
4.75	34.00	19.50	5.00	0.30	0.12	17386.06	0.12	0.19	1948.96	0.19	0.51	2.98	0.51	4.16	4.9852
4.8	34.40	19.80	5.20	0.36	0.12	18467.40	0.12	0.19	2113.80	0.19	0.52	3.93	0.52	5.47	6.3079
4.85	34.80	20.10	5.40	0.42	0.12	19601.82	0.12	0.19	2289.57	0.19	0.53	5.14	0.53	6.90	7.7445
4.9	35.20	20.40	5.60	0.48	0.13	20791.25	0.13	0.19	2476.80	0.19	0.54	6.64	0.54	8.42	9.2866
4.95	35.60	20.70	5.80	0.54	0.13	22037.66	0.13	0.20	2676.05	0.20	0.55	8.48	0.55	10.05	10.9272
5	36.00	21.00	6.00	0.60	0.13	23343.08	0.13	0.20	2887.86	0.20	0.56	10.72	0.56	11.77	12.6608
5.05	36.40	21.30	6.20	0.66	0.13	24709.57	0.13	0.20	3112.84	0.20	0.57	13.41	0.57	13.58	14.4826
5.1	36.80	21.60	6.40	0.72	0.13	26139.24	0.13	0.20	3351.59	0.20	0.58	16.61	0.58	15.48	16.3884
5.15	37.20	21.90	6.60	0.78	0.13	27634.27	0.13	0.20	3604.71	0.20	0.59	20.39	0.59	17.45	18.3746
5.2	37.60	22.20	6.80	0.84	0.13	29196.86	0.13	0.20	3872.86	0.20	0.60	24.83	0.60	19.50	20.4381
5.25	38.00	22.50	7.00	0.90	0.13	30829.27	0.13	0.20	4156.69	0.20	0.61	30.00	0.61	21.63	22.5762
5.3	38.40	22.80	7.20	0.96	0.13	32533.83	0.13	0.21	4456.87	0.21	0.62	35.98	0.62	23.83	24.7862
5.35	38.80	23.10	7.40	1.02	0.13	34312.88	0.13	0.21	4774.09	0.21	0.63	42.87	0.63	26.10	27.0658
5.4	39.20	23.40	7.60	1.08	0.13	36168.85	0.13	0.21	5109.08	0.21	0.64	50.75	0.64	28.43	29.4131
5.45	39.60	23.70	7.80	1.14	0.13	38104.20	0.13	0.21	5462.57	0.21	0.65	59.73	0.65	30.83	31.8260
5.5	40.00	24.00	8.00	1.20	0.13	40121.45	0.13	0.21	5835.30	0.21	0.66	69.93	0.66	33.30	34.3029
5.55	40.40	24.30	8.20	1.26	0.13	42223.16	0.13	0.21	6228.06	0.21	0.67	81.44	0.67	35.83	36.8421
5.6	40.80	24.60	8.40	1.32	0.13	44411.96	0.13	0.21	6641.63	0.21	0.68	94.40	0.68	38.42	39.4421
5.65	41.20	24.90	8.60	1.38	0.14	46690.52	0.14	0.22	7076.84	0.22	0.68	108.94	0.68	41.07	42.1016
5.7	41.60	25.20	8.80	1.44	0.14	49061.58	0.14	0.22	7534.51	0.22	0.69	125.18	0.69	43.77	44.8191
5.75	42.00	25.50	9.00	1.50	0.14	51527.93	0.14	0.22	8015.51	0.22	0.70	143.28	0.70	46.54	47.5936
5.8	42.40	25.80	9.20	1.56	0.14	54092.39	0.14	0.22	8520.71	0.22	0.71	163.37	0.71	49.36	50.4237
5.85	42.80	26.10	9.40	1.62	0.14	56757.87	0.14	0.22	9051.01	0.22	0.72	185.64	0.72	52.23	53.3086
5.9	43.20	26.40	9.60	1.68	0.14	59527.33	0.14	0.22	9607.34	0.22	0.72	210.22	0.72	55.16	56.2471
5.95	43.60	26.70	9.80	1.74	0.14	62403.77	0.14	0.22	10190.63	0.22	0.73	237.32	0.73	58.14	59.2382
6	44.00	27.00	10.00	1.80	0.14	65390.26	0.14	0.22	10801.86	0.22	0.74	267.10	0.74	61.18	62.2812

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
0.05	9176	0.211	456.9
0.1	9253	0.212	917.6
0.15	9329	0.214	1382.2
0.2	9405	0.216	1850.5
0.25	9481	0.218	2322.7
0.3	9558	0.219	2798.6
0.35	9634	0.221	3278.4
0.4	9710	0.223	3762.0
0.45	9786	0.225	4249.4
0.5	9863	0.226	4740.6
0.55	9939	0.228	5235.7
0.6	10015	0.230	5734.5
0.65	10091	0.232	6237.2
0.7	10168	0.233	6743.6
0.75	10244	0.235	7253.9
0.8	10320	0.237	7768.0
0.85	10396	0.239	8285.9
0.9	10473	0.240	8807.6
0.95	10549	0.242	9333.2
1	10625	0.244	9862.5
1.05	10704	0.246	10395.7
1.1	10782	0.248	10932.9
1.15	10861	0.249	11474.0
1.2	10940	0.251	12019.0
1.25	11019	0.253	12567.9
1.3	11097	0.255	13120.8
1.35	11176	0.257	13677.7
1.4	11255	0.258	14238.4
1.45	11333	0.260	14803.1
1.5	11412	0.262	15371.8
1.55	11491	0.264	15944.3
1.6	11569	0.266	16520.8
1.65	11648	0.267	17101.3
1.7	11727	0.269	17685.6
1.75	11806	0.271	18273.9
1.8	11884	0.273	18866.2
1.85	11963	0.275	19462.4
1.9	12042	0.276	20062.5
1.95	12120	0.278	20666.5
2	12199	0.280	21274.5
2.05	12281	0.282	21886.5
2.1	12362	0.284	22502.6
2.15	12444	0.286	23122.7
2.2	12525	0.288	23746.9

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
2.25	12607	0.289	24375.2
2.3	12688	0.291	25007.6
2.35	12770	0.293	25644.0
2.4	12851	0.295	26284.6
2.45	12933	0.297	26929.2
2.5	13015	0.299	27577.9
2.55	13096	0.301	28230.6
2.6	13178	0.303	28887.5
2.65	13259	0.304	29548.4
2.7	13341	0.306	30213.4
2.75	13422	0.308	30882.5
2.8	13504	0.310	31555.6
2.85	13585	0.312	32232.8
2.9	13667	0.314	32914.2
2.95	13748	0.316	33599.5
3	13830	0.317	34289.0
3.05	13915	0.319	34982.6
3.1	13999	0.321	35680.5
3.15	14084	0.323	36382.5
3.2	14168	0.325	37088.8
3.25	14253	0.327	37799.3
3.3	14337	0.329	38514.1
3.35	14422	0.331	39233.0
3.4	14506	0.333	39956.2
3.45	14591	0.335	40683.6
3.5	14675	0.337	41415.3
3.55	14760	0.339	42151.1
3.6	14844	0.341	42891.2
3.65	14929	0.343	43635.5
3.7	15013	0.345	44384.1
3.75	15098	0.347	45136.8
3.8	15182	0.349	45893.8
3.85	15267	0.350	46655.0
3.9	15351	0.352	47420.5
3.95	15436	0.354	48190.1
4	15520	0.356	48964.0
4.05	15607	0.358	49742.2
4.1	15695	0.360	50524.7
4.15	15782	0.362	51311.7
4.2	15869	0.364	52102.9
4.25	15957	0.366	52898.6
4.3	16044	0.368	53698.6
4.35	16131	0.370	54503.0
4.4	16219	0.372	55311.8

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
4.45	16306	0.374	56124.9
4.5	16394	0.376	56942.4
4.55	16481	0.378	57764.2
4.6	16568	0.380	58590.5
4.65	16656	0.382	59421.1
4.7	16743	0.384	60256.0
4.75	16830	0.386	61095.3
4.8	16918	0.388	61939.0
4.85	17005	0.390	62787.1
4.9	17092	0.392	63639.5
4.95	17180	0.394	64496.3
5	17267	0.396	65357.5
5.05	17356	0.398	66223.1
5.1	17446	0.400	67093.1
5.15	17535	0.403	67967.6
5.2	17624	0.405	68846.6
5.25	17713	0.407	69730.0
5.3	17803	0.409	70617.9
5.35	17892	0.411	71510.3
5.4	17981	0.413	72407.1
5.45	18070	0.415	73308.4
5.5	18160	0.417	74214.1
5.55	18249	0.419	75124.3
5.6	18338	0.421	76039.0
5.65	18427	0.423	76958.1
5.7	18517	0.425	77881.7
5.75	18606	0.427	78809.8
5.8	18695	0.429	79742.3
5.85	18784	0.431	80679.3
5.9	18874	0.433	81620.7
5.95	18963	0.435	82566.6
6	19052	0.437	83517.0

BASIN DRAWDOWN			
Ponding Depth (FT)	Qout Total (CFS)	V in basin (CU FT)	Total Drawdown Time (HR)
6.00	62.391	83517	0.00
5.90	56.357	81621	0.01
5.80	50.533	79742	0.02
5.70	44.929	77882	0.03
5.60	39.552	76039	0.04
5.50	34.412	74214	0.06
5.40	29.523	72407	0.07
5.30	24.896	70618	0.09
5.20	20.548	68847	0.11
5.10	16.498	67093	0.14
5.00	12.770	65358	0.17
4.90	9.396	63640	0.21
4.80	6.417	61939	0.27
4.70	3.897	60256	0.36
4.60	1.943	58590	0.52
4.50	0.861	56942	0.85
4.40	0.830	55312	1.38
4.30	0.797	53699	1.94
4.20	0.761	52103	2.50
4.10	0.723	50525	3.10
4.00	0.681	48964	3.71
3.90	0.634	47420	4.36
3.80	0.578	45894	5.06
3.70	0.483	44384	5.86
3.60	0.397	42891	6.80
3.50	0.360	41415	7.88
3.40	0.355	39956	9.01
3.30	0.349	38514	10.15
3.20	0.343	37089	11.30
3.10	0.337	35680	12.45
3.00	0.330	34289	13.61
2.90	0.324	32914	14.77
2.80	0.317	31556	15.95
2.70	0.310	30213	17.14
2.60	0.303	28887	18.34
2.50	0.295	27578	19.56
2.40	0.287	26285	20.79
2.30	0.279	25008	22.04
2.20	0.270	23747	23.32
2.10	0.261	22503	24.62
2.00	0.251	21275	25.95
1.90	0.239	20062	27.33

1.80	0.226	18866	28.75
1.70	0.210	17686	30.26
1.60	0.183	16521	31.91
1.50	0.168	15372	33.73
1.40	0.165	14238	35.62
1.30	0.161	13121	37.53
1.20	0.158	12019	39.45
1.10	0.154	10933	41.39
1.00	0.149	9863	43.35
0.90	0.144	8808	45.35
0.80	0.139	7768	47.38
0.70	0.132	6744	49.49
0.60	0.119	5735	51.72
0.50	0.110	4741	54.13
0.40	0.110	3762	56.61
0.30	0.110	2799	59.05
0.20	0.110	1851	61.46
0.10	0.110	918	63.82
0.00	0.110	0	66.15

```
[TITLE]
;;Project Title/Notes
PACIFICA SITE-DEVELOPED

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           08/28/1951
START_TIME           00:00:00
REPORT_START_DATE    08/28/1951
REPORT_START_TIME    00:00:00
END_DATE             05/23/2008
END_TIME             23:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             00:15:00
DRY_STEP             04:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.557
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          0.060  0.080  0.11   0.15   0.17   0.19   0.19   0.18   0.15   0.11   0.08   0.06
DRY_ONLY         NO

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
bf-1-1-DISCHARGE 0          FREE                        NO
```

```
[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Name/Params            N/A      Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ---------- ---------- ---------------------------- -------- --------          -------- --------
;THE STORAGE AVAILABE WITHIN THE BASIN ABOVE WATER QUALITY PONDING DEPTH
DETENTION-BASIN  0        5.5        0          TABULAR    BF-1-1-storage               0        0

[OUTLETS]
;;Name           From Node        To Node          Offset     Type            QTable/Qcoeff    Qexpon     Gated
;;-------------- ---------------- ---------------- ---------- --------------- ---------------- ---------- --------
DETENTION-BASIN-DISCHARGE DETENTION-BASIN  bf-1-1-DISCHARGE 0          TABULAR/DEPTH   BF-1-1                     NO

[INFLOWS]
;;Node           Constituent      Time Series      Type     Mfactor  Sfactor  Baseline Pattern
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
DETENTION-BASIN  FLOW             100-YEAR-INFLOW-HYDROGRAPH FLOW     1.0      1.0

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BF-1-1           Rating     0          0.0000
BF-1-1                      0.05       0.0028
BF-1-1                      0.1        0.0099
BF-1-1                      0.15       0.0178
BF-1-1                      0.2        0.0223
BF-1-1                      0.25       0.0260
BF-1-1                      0.3        0.0293
BF-1-1                      0.35       0.0322
BF-1-1                      0.4        0.0349
BF-1-1                      0.45       0.0374
BF-1-1                      0.5        0.0397
BF-1-1                      0.55       0.0419
BF-1-1                      0.6        0.0440
BF-1-1                      0.65       0.0460
BF-1-1                      0.7        0.0480
BF-1-1                      0.75       0.0498
BF-1-1                      0.8        0.0516
BF-1-1                      0.85       0.0533
BF-1-1                      0.9        0.0550
BF-1-1                      0.95       0.0566
BF-1-1                      1          0.0582
BF-1-1                      1.05       0.0630
BF-1-1                      1.1        0.0733
BF-1-1                      1.15       0.0874
BF-1-1                      1.2        0.1005
BF-1-1                      1.25       0.1091
BF-1-1                      1.3        0.1165
BF-1-1                      1.35       0.1233
BF-1-1                      1.4        0.1296
BF-1-1                      1.45       0.1354
BF-1-1                      1.5        0.1410
BF-1-1                      1.55       0.1462
```

BF-1-1	1.6	0.1513
BF-1-1	1.65	0.1561
BF-1-1	1.7	0.1607
BF-1-1	1.75	0.1652
BF-1-1	1.8	0.1696
BF-1-1	1.85	0.1738
BF-1-1	1.9	0.1779
BF-1-1	1.95	0.1820
BF-1-1	2	0.1859
BF-1-1	2.05	0.1897
BF-1-1	2.1	0.1934
BF-1-1	2.15	0.1971
BF-1-1	2.2	0.2007
BF-1-1	2.25	0.2042
BF-1-1	2.3	0.2077
BF-1-1	2.35	0.2111
BF-1-1	2.4	0.2144
BF-1-1	2.45	0.2177
BF-1-1	2.5	0.2209
BF-1-1	2.55	0.2241
BF-1-1	2.6	0.2272
BF-1-1	2.65	0.2303
BF-1-1	2.7	0.2334
BF-1-1	2.75	0.2364
BF-1-1	2.8	0.2393
BF-1-1	2.85	0.2422
BF-1-1	2.9	0.2451
BF-1-1	2.95	0.2480
BF-1-1	3	0.2508
BF-1-1	3.05	0.2619
BF-1-1	3.1	0.2879
BF-1-1	3.15	0.3261
BF-1-1	3.2	0.3735
BF-1-1	3.25	0.4268
BF-1-1	3.3	0.4681
BF-1-1	3.35	0.4977
BF-1-1	3.4	0.5243
BF-1-1	3.45	0.5488
BF-1-1	3.5	0.5717
BF-1-1	3.55	0.5932
BF-1-1	3.6	0.6136
BF-1-1	3.65	0.6331
BF-1-1	3.7	0.6518
BF-1-1	3.75	0.6697
BF-1-1	3.8	0.6870
BF-1-1	3.85	0.7038
BF-1-1	3.9	0.7200
BF-1-1	3.95	0.7358
BF-1-1	4	0.7511
BF-1-1	4.05	1.1384
BF-1-1	4.1	1.8338
BF-1-1	4.15	2.7296

```
BF-1-1                     4.2         3.7875
BF-1-1                     4.25        4.9852
BF-1-1                     4.3         6.3079
BF-1-1                     4.35        7.7445
BF-1-1                     4.4         9.2866
BF-1-1                     4.45        10.9272
BF-1-1                     4.5         12.6608
BF-1-1                     4.55        14.4826
BF-1-1                     4.6         16.3884
BF-1-1                     4.65        18.3746
BF-1-1                     4.7         20.4381
BF-1-1                     4.75        22.5762
BF-1-1                     4.8         24.7862
BF-1-1                     4.85        27.0658
BF-1-1                     4.9         29.4131
BF-1-1                     4.95        31.8260
BF-1-1                     5           34.3029
BF-1-1                     5.05        36.8421
BF-1-1                     5.1         39.4421
BF-1-1                     5.15        42.1016
BF-1-1                     5.2         44.8191
BF-1-1                     5.25        47.5936
BF-1-1                     5.3         50.4237
BF-1-1                     5.35        53.3086
BF-1-1                     5.4         56.2471
BF-1-1                     5.45        59.2382
BF-1-1                     5.5         62.2812
;
BF-1-1-storage   Storage    0           9863
BF-1-1-storage              0.05        9939
BF-1-1-storage              0.1         10015
BF-1-1-storage              0.15        10091
BF-1-1-storage              0.2         10168
BF-1-1-storage              0.25        10244
BF-1-1-storage              0.3         10320
BF-1-1-storage              0.35        10396
BF-1-1-storage              0.4         10473
BF-1-1-storage              0.45        10549
BF-1-1-storage              0.5         10625
BF-1-1-storage              0.55        10704
BF-1-1-storage              0.6         10782
BF-1-1-storage              0.65        10861
BF-1-1-storage              0.7         10940
BF-1-1-storage              0.75        11019
BF-1-1-storage              0.8         11097
BF-1-1-storage              0.85        11176
BF-1-1-storage              0.9         11255
BF-1-1-storage              0.95        11333
BF-1-1-storage              1           11412
BF-1-1-storage              1.05        11491
BF-1-1-storage              1.1         11569
BF-1-1-storage              1.15        11648
```

BF-1-1-storage	1.2	11727
BF-1-1-storage	1.25	11806
BF-1-1-storage	1.3	11884
BF-1-1-storage	1.35	11963
BF-1-1-storage	1.4	12042
BF-1-1-storage	1.45	12120
BF-1-1-storage	1.5	12199
BF-1-1-storage	1.55	12281
BF-1-1-storage	1.6	12362
BF-1-1-storage	1.65	12444
BF-1-1-storage	1.7	12525
BF-1-1-storage	1.75	12607
BF-1-1-storage	1.8	12688
BF-1-1-storage	1.85	12770
BF-1-1-storage	1.9	12851
BF-1-1-storage	1.95	12933
BF-1-1-storage	2	13015
BF-1-1-storage	2.05	13096
BF-1-1-storage	2.1	13178
BF-1-1-storage	2.15	13259
BF-1-1-storage	2.2	13341
BF-1-1-storage	2.25	13422
BF-1-1-storage	2.3	13504
BF-1-1-storage	2.35	13585
BF-1-1-storage	2.4	13667
BF-1-1-storage	2.45	13748
BF-1-1-storage	2.5	13830
BF-1-1-storage	2.55	13915
BF-1-1-storage	2.6	13999
BF-1-1-storage	2.65	14084
BF-1-1-storage	2.7	14168
BF-1-1-storage	2.75	14253
BF-1-1-storage	2.8	14337
BF-1-1-storage	2.85	14422
BF-1-1-storage	2.9	14506
BF-1-1-storage	2.95	14591
BF-1-1-storage	3	14675
BF-1-1-storage	3.05	14760
BF-1-1-storage	3.1	14844
BF-1-1-storage	3.15	14929
BF-1-1-storage	3.2	15013
BF-1-1-storage	3.25	15098
BF-1-1-storage	3.3	15182
BF-1-1-storage	3.35	15267
BF-1-1-storage	3.4	15351
BF-1-1-storage	3.45	15436
BF-1-1-storage	3.5	15520
BF-1-1-storage	3.55	15607
BF-1-1-storage	3.6	15695
BF-1-1-storage	3.65	15782
BF-1-1-storage	3.7	15869
BF-1-1-storage	3.75	15957

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BF-1-1-storage              3.8        16044
BF-1-1-storage              3.85       16131
BF-1-1-storage              3.9        16219
BF-1-1-storage              3.95       16306
BF-1-1-storage              4          16394
BF-1-1-storage              4.05       16481
BF-1-1-storage              4.1        16568
BF-1-1-storage              4.15       16656
BF-1-1-storage              4.2        16743
BF-1-1-storage              4.25       16830
BF-1-1-storage              4.3        16918
BF-1-1-storage              4.35       17005
BF-1-1-storage              4.4        17092
BF-1-1-storage              4.45       17180
BF-1-1-storage              4.5        17267
BF-1-1-storage              4.55       17356
BF-1-1-storage              4.6        17446
BF-1-1-storage              4.65       17535
BF-1-1-storage              4.7        17624
BF-1-1-storage              4.75       17713
BF-1-1-storage              4.8        17803
BF-1-1-storage              4.85       17892
BF-1-1-storage              4.9        17981
BF-1-1-storage              4.95       18070
BF-1-1-storage              5          18160
BF-1-1-storage              5.05       18249
BF-1-1-storage              5.1        18338
BF-1-1-storage              5.15       18427
BF-1-1-storage              5.2        18517
BF-1-1-storage              5.25       18606
BF-1-1-storage              5.3        18695
BF-1-1-storage              5.35       18784
BF-1-1-storage              5.4        18874
BF-1-1-storage              5.45       18963
BF-1-1-storage              5.5        19052

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:00       0
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:09       0
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:18       1.2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:27       1.2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:36       1.2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:45       1.3
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  0:54       1.3
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:03       1.3
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:12       1.4
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:21       1.4
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:30       1.5
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:39       1.5
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:48       1.6
```

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100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  1:57       1.7
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:06       1.8
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:15       1.8
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:24       2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:33       2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:42       2.2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  2:51       2.3
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:00       2.6
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:09       2.7
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:18       3.1
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:27       3.4
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:36       4.1
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:45       4.7
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  3:54       6.9
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:03       8.5
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:12       36.05
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:21       5.5
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:30       3.7
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:39       2.9
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:48       2.4
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  4:57       2.1
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:06       1.9
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:15       1.7
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:24       1.6
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:33       1.5
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:42       1.4
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  5:51       1.3
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  6:00       1.2
100-YEAR-INFLOW-HYDROGRAPH 8/28/1951  6:09       0

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 664.453 4315.668 1694.096 5505.165
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
bf-1-1-DISCHARGE 214.578            4887.995
DETENTION-BASIN  220.479            5031.962

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
```

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.014)

PACIFICA SITE-DEVELOPED

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... NO
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Flow Routing Method ..... KINWAVE
Starting Date 08/28/1951 00:00:00
Ending Date 05/23/2008 23:00:00
Antecedent Dry Days 0.0
Report Time Step 01:00:00
Routing Time Step ..... 60.00 sec

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	1.586	0.517
External Outflow	1.584	0.516
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.104	

****
Highest Flow Instability Indexes

****
All links are stable.

****
Routing Time Step Summary
****
Minimum Time Step : 60.00 sec
Average Time Step : 60.00 sec
Maximum Time Step : 60.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
bf-1-1-DISCHARGE	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
DETENTION-BASIN	STORAGE	0.00	4.18	4.18	0 04:36	4.14

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
bf-1-1-DISCHARGE	OUTFALL	0.00	3.32	0 04:36	0	0.516	0.000
DETENTION-BASIN	STORAGE	36.05	36.05	0 04:13	0.517	0.517	0.104

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
DETENTION-BASIN	0.005	0	0	0	55.151	70	0 04:35	3.32

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
bf-1-1-DISCHARGE	0.04	0.09	3.32	0.516
System	0.04	0.09	3.32	0.516

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
DETENTION-BASIN-DISCHARGE	DUMMY	3.32	0 04:36			

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Thu Mar 23 10:51:08 2023
Analysis ended on: Thu Mar 23 10:51:44 2023
Total elapsed time: 00:00:36

Appendix I
SWQMP

(GPA22-00001)

CITY OF OCEANSIDE
ENGINEERING DIVISION

PRIORITY DEVELOPMENT PROJECT

STORM WATER QUALITY MANAGEMENT PLAN

FOR

PACIFICA ELEMENTARY SCHOOL

ENGINEER OF WORK

Alisa Vialpando – RCE 47945 Exp. 12/31/23

PREPARED FOR:

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How to Use This Template

This template, assembled by GHD Inc. on behalf of the City of Oceanside, is for the development of Storm Water Quality Management Plans (SWQMPs) for Priority Development Projects (PDPs) proposed within Oceanside, CA. It is based on requirements set forth in the Regional Water Quality Control Board's National Pollutant Discharge Elimination System MS4 Permit that covers the San Diego Region (Order No. R9-2013-0001).

All references within the template refer to the City of Oceanside BMP Design Manual dated February 2016 (Manual). Use of this template in conjunction with the Manual is intended to help a project applicant develop a SWQMP compliant with City of Oceanside and MS4 Permit requirements.

Applicable elements of SWQMP were update in accordance with the January 2022 city of Oceanside BMP Design Manual.

Template Date: February 16, 2016

Assembled By:

Quick Reference Guide

Item	Project Information
Project Name	Pacifica Elementary School
Application Number(s)	GPA22-00001
Project Address	Roja Drive and Macario Drive, Oceanside, CA 92054
Total Parcel Area	633,638 sq. ft.
Project Description	Pacifica Elementary School property is a 14.55-acre site located in the City of Oceanside, CA, East of I-5. Existing site is partially developed with a large concrete pad and empty land. The Proposed site will include multi-family buildings incorporating 164 residential units.
Proposed Disturbed Area	443,150 sq. ft.
Created or Replaced Impervious	312,149 sq. ft.
Project Hydrologic Unit Watershed	☐ Santa Maria ☒ San Luis Rey ☐ Carlsbad
Required to implement HMP	☒ Yes ☐ No

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CERTIFICATION PAGE

Project Name: Pacifica Elementary School
Permit Application Number: (GPA22-00001)

I hereby declare that I am the Engineer in Responsible Charge of design of storm water BMPs for this project, and that I have exercised responsible charge over the design of the project as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the requirements of the City of Oceanside BMP Design Manual, which is based on the requirements of San Diego Regional Water Quality Control Board Order No. R9-2013-0001 (MS4 Permit).

I have read and understand that the City has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the BMP Design Manual. I certify that this SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable source control and site design BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this SWQMP by City staff is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

As Engineer of Work, I agree to indemnify, defend, and hold harmless the City of Oceanside, its officers, agents, and employees from any and all liability, claims, damages, or injuries to any person or property which might arise from the negligent acts, errors, or omissions of the Engineer of Work, my employees, agents or consultants.

Alisa S. Vialpando

Alisa Vialpando, RCE 47945, Exp. 12/31/23

Alisa Vialpando

Print Name

Hunsaker & Associates

Company

03/22/2023

Date

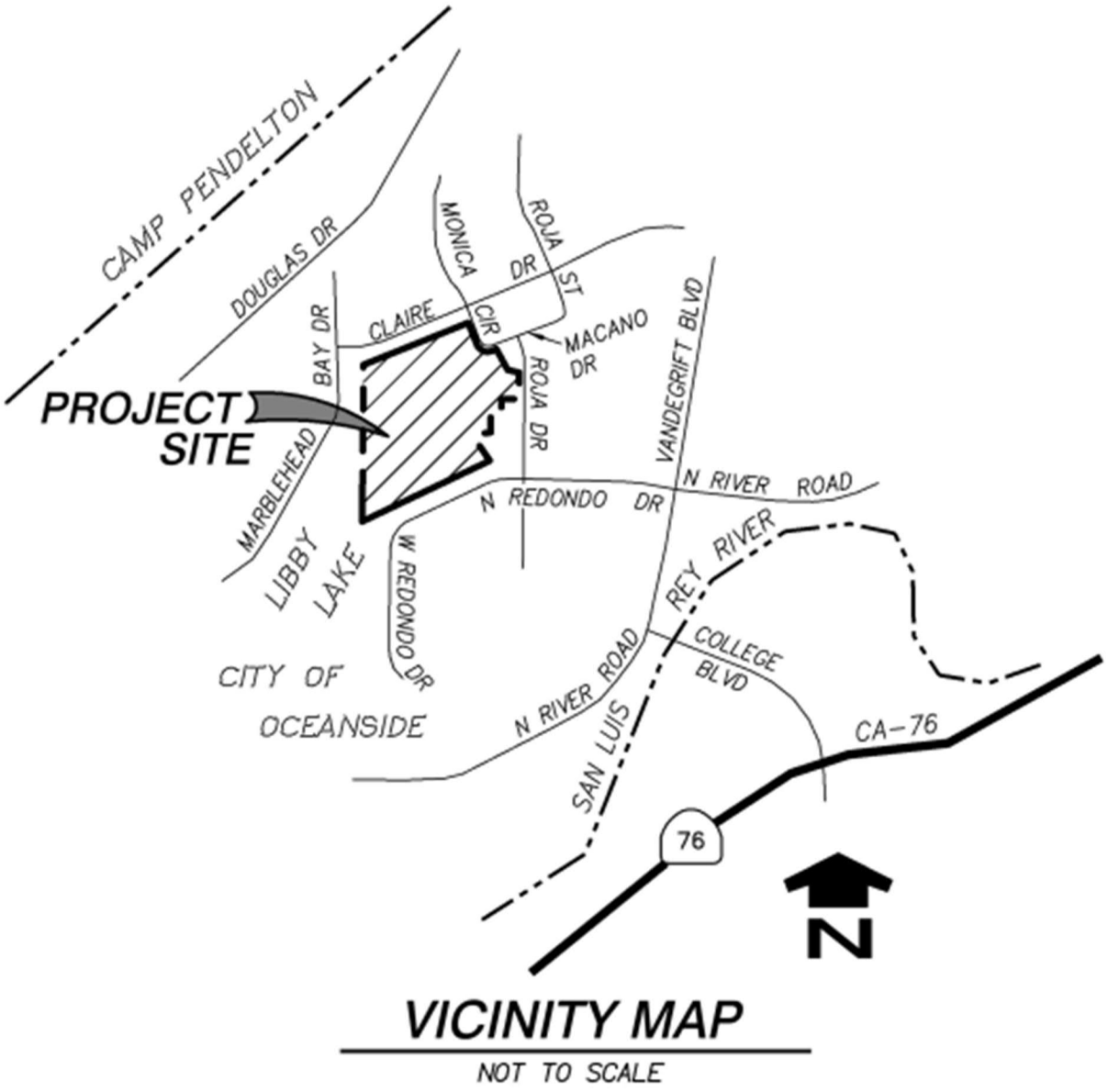
Engineer's Seal:

SUBMITTAL RECORD

Use this Table to keep a record of submittals of this SWQMP. Each time the SWQMP is re-submitted, provide the date and status of the project. In last column indicate changes that have been made or indicate if response to plancheck comments is included. When applicable, insert response to plancheck comments behind this page.

Submittal Number	Date	Project Status	Changes
1	[06/13/22]	☒ Preliminary Design/ Planning/ CEQA ☐ Final Design	SWQMP Initial Submittal
2	[11/15/22]	☒ Preliminary Design/ Planning/ CEQA ☐ Final Design	2nd Submittal
3	[03/22/23]	☒ Preliminary Design/ Planning/ CEQA ☐ Final Design	3rd Submittal
4	[MM/DD/YY]	☐ Preliminary Design/ Planning/ CEQA ☐ Final Design	Click here to enter text.

Placeholder – **Project Vicinity Map**



Applicability of Permanent, Post-Construction Storm Water BMP Requirements (Storm Water Intake Form for all Development Permit Applications)	Form I-1

Project Identification

Project Name: Pacifica Elementary School

Permit Application Number: GPA22-00001 | Date: 6/13/22

Determination of Requirements

The purpose of this form is to identify permanent, post-construction requirements that apply to the project. This form serves as a short summary of applicable requirements, in some cases referencing separate forms that will serve as the backup for the determination of requirements.

Answer each step below, starting with Step 1 and progressing through each step until reaching "Stop".
Refer to the manual sections and/or separate forms referenced in each step below.

Step	Answer	Progression
Step 1: Is the project a "development project"? See Section 1.3 of the manual for guidance.	☒Yes	Go to Step 2.
	☐No	Stop. Permanent BMP requirements do not apply. No SWQMP will be required. Provide discussion below.
Discussion / justification if the project is not a "development project" (e.g., the project includes *only* interior remodels within an existing building):		
Step 2: Is the project a Standard Project, PDP, or exception to PDP definitions? To answer this item, see Section 1.4 of the manual *in its entirety* for guidance, AND complete Form I-2, Project Type Determination.	☐Standard Project	Stop. Standard Project requirements apply, including Standard Project SWQMP.
	☒PDP	PDP requirements apply, including PDP SWQMP. Go to Step 3.
	☐ Exception to PDP definitions	Stop. Standard Project requirements apply. Provide discussion and list any additional requirements below. Prepare Standard Project SWQMP.
Discussion / justification, and additional requirements for exceptions to PDP definitions, if applicable:		

Form I-1 Page 2 of 2		
Step	Answer	Progression
Step 3. Is the project subject to earlier PDP requirements due to a prior lawful approval? See Section 1.10 of the manual for guidance.	☐Yes	Consult the [City Engineer] to determine requirements. Provide discussion and identify requirements below. Go to Step 4.
	☒No	BMP Design Manual PDP requirements apply. Go to Step 4.
Discussion / justification of prior lawful approval, and identify requirements (*not required if prior lawful approval does not apply*):		
Step 4. Do hydromodification control requirements apply? See Section 1.6 of the manual for guidance.	☒Yes	PDP structural BMPs required for pollutant control (Chapter 5) and hydromodification control (Chapter 6). Go to Step 5.
	☐No	Stop. PDP structural BMPs required for pollutant control (Chapter 5) only. Provide brief discussion of exemption to hydromodification control below.
Discussion / justification if hydromodification control requirements do <u>not</u> apply:		
Step 5. Does protection of critical coarse sediment yield areas apply? See Section 6.2 of the manual for guidance.	☐Yes	Management measures required for protection of critical coarse sediment yield areas (Chapter 6.2). Stop.
	☒No	Management measures not required for protection of critical coarse sediment yield areas. Provide brief discussion below. Stop.
Discussion / justification if protection of critical coarse sediment yield areas does <u>not</u> apply:		

Project Type Determination Checklist			Form I-2
Project Information			
Project Name: Pacifica Elementary School			
Permit Application Number: GPA22-00001			
Project Type Determination: Standard Project or PDP			
The project is (select one): ☐ New Development × Redevelopment			
The total proposed newly created or replaced impervious area is: 312,149 ft² (7.17) acres			
Is the project in any of the following categories, (a) through (f)?			
Yes ☐	No ☒	(a)	New development projects that create 10,000 square feet or more of impervious surfaces (collectively over the entire project site). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.
Yes ☒	No ☐	(b)	Redevelopment projects that create and/or replace 5,000 square feet or more of impervious surface (collectively over the entire project site on an existing site of 10,000 square feet or more of impervious surfaces). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.
Yes ☒	No ☐	(c)	New and redevelopment projects that create 5,000 square feet or more of impervious surface (collectively over the entire project site), and support one or more of the following uses: (i) Restaurants. This category is defined as a facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption SIC code 5812). (ii) Hillside development projects. This category includes development on any natural slope that is twenty-five percent or greater. (iii) Parking lots. This category is defined as a land area or facility for the temporary parking or storage of motor vehicles used personally, for business, or for commerce. (iv) Streets, roads, highways, freeways, and driveways. This category is defined as any paved impervious surface used for the transportation of automobiles, trucks, motorcycles, and other vehicles.

Form I-2 Page 2 of 2			
Yes ☐	No ☒	(d)	New or redevelopment projects that create or replace 2,500 square feet or more of impervious surface (collectively over the entire project site), and discharging directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands). Note: ESAs are areas that include but are not limited to all Clean Water Act Section 303(d) impaired water bodies; areas designated as Areas of Special Biological Significance by the State Water Board and SDRWQCB; State Water Quality Protected Areas; water bodies designated with the RARE beneficial use by the State Water Board and SDRWQCB; and any other equivalent environmentally sensitive areas which have been identified by the Copermittees. See manual Section 1.4.2 for additional guidance.
Yes ☐	No ☒	(e)	New development projects that support one or more of the following uses: (i) Automotive repair shops. This category is defined as a facility that is categorized in any one of the following SIC codes: 5013, 5014, 5541, 7532-7534, or 7536-7539. (ii) Retail gasoline outlets. This category includes retail gasoline outlets that meet the following criteria: (a) 5,000 square feet or more or (b) a projected Average Daily Traffic of 100 or more vehicles per day.
Yes ☒	No ☐	(f)	New or redevelopment projects that result in the disturbance of one or more acres of land and are expected to generate pollutants post construction. *Note: See manual Section 1.4.2 for additional guidance.*

Does the project meet the definition of one or more of the PDP categories (a) through (f) listed above?

☐ No – the project is not a PDP (Standard Project).

☒ Yes – the project is a PDP.

The following is for redevelopment PDPs only:

The area of existing (pre-project) impervious area at the project site is: 203,317 ft^2 (A)
The total proposed newly created or replaced impervious area is: 312,149 ft^2 (B)
Percent impervious surface created or replaced (A/B)*100: 65%
The percent impervious surface created or replaced is (select one based on the above calculation):

☐ less than or equal to fifty percent (50%) – only new impervious areas are considered PDP

OR

☒ greater than fifty percent (50%) – the entire project site is a PDP

Site Information Checklist For PDPs	Form I-3B (PDPs)
Project Summary Information	
Project Name	Pacifica Elementary School
Project Address	Roja Drive & Macario Drive, Oceanside, CA 92054
Assessor's Parcel Number(s)	157-070-42, 122-190-19, 122-190-22
Permit Application Number	GPA22-00001
Project Watershed (Hydrologic Unit)	Select One: ☐Santa Margarita 902 ☒San Luis Rey 903 ☐Carlsbad 904
Parcel Area (total area of Assessor's Parcel(s) associated with the project)	14.55 Acres (633,638 Square Feet)
Area to be disturbed by the project (Project Area)	10.17 Acres (443,150 Square Feet)
Project Proposed Impervious Area (subset of Project Area)	7.17 Acres (312,149 Square Feet)
Project Proposed Pervious Area (subset of Project Area)	3.007Acres (131,001 Square Feet)
Note: Proposed Impervious Area + Proposed Pervious Area = Area to be Disturbed by the Project. This may be less than the Parcel Area.	

Hydrologic Unit	Hydrologic Area	Hydrologic Sub-Area
Santa Margarita 902.00	☐ Ysidora 902.10	☐ Lower Ysidora 902.11
San Luis Rey 903.00	☒ Lower San Luis 903.10	☒ Mission 903.11
		☐ Bonsall 903.12
Carlsbad 904.00	☐ Loma Alta 904.10	Not Applicable
	☐ Buena Vista Creek 904.20	☐ El Salto 904.21
		☐ Vista 904.22
	☐ Agua Hedionda 4.30	☐ Los Monos 904.31

Description of Existing Site Condition and Drainage Patterns

Current Status of the Site (select all that apply):

☒Existing development

☐Previously graded but not built out

☐Agricultural or other non-impervious use

☒Vacant, undeveloped/natural

Description / Additional Information:

The site is an old school development with no buildings, and it is partially occupied with a parking lot, driveways, and large concrete pad while the western portion consists of vacant land.

Existing Land Cover Includes (select all that apply):

☒Vegetative Cover

☒Non-Vegetated Pervious Areas

☒Impervious Areas

Description / Additional Information:

The existing impervious area consists of parking lot, driveways, and a large concrete pad. Pervious area consists of vacant undeveloped area, vegetative cover and slopes.

Underlying Soil belongs to Hydrologic Soil Group (select all that apply):

☐NRCS Type A

☒NRCS Type B

☐NRCS Type C

☒NRCS Type D

Approximate Depth to Groundwater:

☐Groundwater Depth < 5 feet

☐5 feet < Groundwater Depth < 10 feet

☐10 feet < Groundwater Depth < 20 feet

☒Groundwater Depth > 20 feet

Description of Existing Site Topography and Drainage [How is storm water runoff conveyed from the site? At a minimum, this description should answer (1) whether existing drainage conveyance is natural or urban; (2) describe existing constructed storm water conveyance systems, if applicable; and (3) is runoff from offsite conveyed through the site? If so, describe]:

The Existing Site Topography and Drainage of Pacifica Elementary School consists of partial urban and partial natural drainage that delivers flow to the San Luis Rey River. An existing Storm Drain runs through the center of the site with two catch basin in the center and in the Southwest corner of the site. There are portions of offsite runoff that is conveyed through the sight from the Southeast corner of the site. (0.60 acres).

Description of Proposed Site Development and Drainage Patterns

Project Description / Proposed Land Use and/or Activities:

the proposed site will consist of 164 residential units (25 buildings), multiple outdoor community recreational areas, tennis-courts, and a dog park. In addition, the project proposes a biofiltration basin to provide a pollutant control for the majority of the project area, and meet the hydromodification and peak flow detention for the entire site. A proprietary biofiltration BMP is proposed northeast of the site to teat a small portion that drains away from the biofiltration basin. The existing impervious area onsite will be replaced.

List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards, athletic courts, other impervious features):

Building rooftops, roadways, sidewalks, walkways, parking, patios and other hardscapes areas/impervious features, e.g. pickle ball court.

List/describe proposed pervious features of the project (e.g., landscape areas):

Flow through planters and landscaped areas.

Does the project include grading and changes to site topography?

☒Yes

☐No

Description / Additional Information:

Grading will be performed on 70% of the site , which includes the proposed biofiltration basin, grading to accommodate the pvt drives, building pads, and ensure the drainage slope on all of the landscaped areas.

Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?

☒Yes

☐No

Description / Additional Information:

The site will include new dual storm drain system, bypass system to replace the existing storm drain pipe that will abandoned, and onsite storm drain system to capture the runoff from the proposed develop-ment and the southeast offsite area that commingles with the onsite flows and route it to the biofiltration basin. The bypass storm drain system will convey run-on from the offsite area, treated flows from the proprietary biofiltration BMP east of the site (DMA2), and runoff from the slopes that drain to the proposed brow ditches to commingle with the outfall from the biofiltration basin southwest of the site prior to discharge to POC similarly to existing conditions.

Identify whether any of the following features, activities, and/or pollutant source areas will be present (select all that apply):

☒Onsite storm drain inlets

☒Interior floor drains and elevator shaft sump pumps

☒Interior parking garages

☒Need for future indoor & structural pest control

☒Landscape/outdoor pesticide use

☐Pools, spas, ponds, decorative fountains, and other water features

☐Food service

☐Refuse areas

☐Industrial processes

☐Outdoor storage of equipment or materials

☐Vehicle and equipment cleaning

☐Vehicle/equipment repair and maintenance

☐Fuel dispensing areas

☐Loading docks

☒Fire sprinkler test water

☒Miscellaneous drain or wash water

☒Plazas, sidewalks, and parking lots

Identification of Receiving Water Pollutants of Concern

Describe path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable):
The site drains to Libby Lake, which is pumped to gravity drain to Pilgrim Creek, then to San Luis Ray River lower and ultimately to Pacifica Ocean Shoreline, San Luis Rey HU, at San Luis Rey River Outlet. Libby lake and Pilgrim Creek are not listed in the 303 d list.

List any 303(d) impaired water bodies within the path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable), identify the pollutant(s)/stressor(s) causing impairment, and identify any TMDLs for the impaired water bodies:

303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs
San Luis Rey River Lower	Chloride Oxygen, Dissolved, Phosphorus Pyrethroids Toxicity Nitrogen, Dissolved solids Benthic Community Effect Bifenthrin	Bacteria
Pacifica Ocean Shoreline, San Luis Rey HU, at San Luis Rey River Outlet	Indicator Bacteria	Bacteria

Hydromodification Management Requirements

Do hydromodification management requirements apply (see Section 1.6 of the manual)?

☒Yes, hydromodification management flow control structural BMPs required.

☐No, the project will discharge runoff directly to existing underground storm drains discharging directly to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.

☐No, the project will discharge runoff directly to conveyance channels whose bed and bank are concrete-lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.

☐No, the project will discharge runoff directly to an area identified as appropriate for an exemption by the WMAA for the watershed in which the project resides.

Description / Additional Information (to be provided if a 'No' answer has been selected above):

Critical Coarse Sediment Yield Areas*

*This Section only required if hydromodification management requirements apply

Based on the maps provided within the WMAA, do potential critical coarse sediment yield areas exist within the project drainage boundaries?

☐Yes

☒No, no critical coarse sediment yield areas to be protected based on WMAA maps

If yes, have any of the optional analyses presented in Section 6.2 of the manual been performed?

☐6.2.1 Verification of GLUs Onsite

☐6.2.2 Downstream Systems Sensitivity to Coarse Sediment

☐6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite

☐No optional analyses performed, the project will avoid critical coarse sediment yield areas identified based on WMAA maps

If optional analyses were performed, what is the final result?

☐No critical coarse sediment yield areas to be protected based on verification of GLUs onsite.

☐Critical coarse sediment yield areas exist but additional analysis has determined that protection is not required. Documentation attached in Attachment 8 of the SWQMP.

☐Critical coarse sediment yield areas exist and require protection. The project will implement management measures described in Sections 6.2.4 and 6.2.5 as applicable, and the areas are identified on the SWQMP Exhibit.

Discussion / Additional Information:

Flow Control for Post-Project Runoff*

*This Section only required if hydromodification management requirements apply

List and describe point(s) of compliance (POCs) for flow control for hydromodification management (see Section 6.3.1). For each POC, provide a POC identification name or number correlating to the project's HMP Exhibit and a receiving channel identification name or number correlating to the project's HMP Exhibit.

POC1 is the only point of compliance and it is located offsite near the Southwest corner of the Project Boundary.

Has a geomorphic assessment been performed for the receiving channel(s)?

☒No, the low flow threshold is 0.1Q2 (default low flow threshold)

☐Yes, the result is the low flow threshold is 0.1Q2

☐Yes, the result is the low flow threshold is 0.3Q2

☐Yes, the result is the low flow threshold is 0.5Q2

If a geomorphic assessment has been performed, provide title, date, and preparer:

Discussion / Additional Information: (optional)

Source Control BMP Checklist for All Development Projects (Standard Projects and PDPs)	Form I-4

Project Identification

Project Name: Pacifica Elementary School

Permit Application Number: GPA22-00001

Source Control BMPs

All development projects must implement source control BMPs SC-1 through SC-6 where applicable and feasible. See Chapter 4 and Appendix E of the manual for information to implement source control BMPs shown in this checklist.

Answer each category below pursuant to the following.

- "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the manual. Discussion / justification is not required.
- "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project has no outdoor materials storage areas). Discussion / justification may be provided.

Source Control Requirement	Implemented?		
SC-1 Prevention of Illicit Discharges into the MS4	☒ Yes	☐ No	☐ N/A
Discussion / justification if SC-1 not implemented: All proposed impervious areas drain to proposed landscaped areas where applicable, and eventually to structural Biofiltration BMPs, thus mitigating non-storm water discharge to the MS4. Efficient irrigation will also be proposed.			
SC-2 Storm Drain Stenciling or Signage	☒ Yes	☐ No	☐ N/A
Discussion / justification if SC-2 not implemented: • Locations of inlets are shown on exhibits. • All inlets will be marked with the words "No dumping! Flows to Bay" or similar. • Maintain and periodically repaint or replace inlet markings. • Provide storm water pollution prevention information to new owners, lessees, or operations.			
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
Discussion / justification if SC-3 not implemented: There's no "Outdoor Materials Storage Areas" contemplated for this project.			

Form I-4 Page 2 of 3			
Source Control Requirement	Implemented?		
SC-4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
Discussion / justification if SC-4 not implemented: There's no "Materials Stored in Outdoor Work Areas" contemplated for this project.			
SC-5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	☐ Yes	☐ No	☒ N/A
Discussion / justification if SC-5 not implemented: There's no "Trash Storage Areas " contemplated for this project.			

Form I-4 Page 3 of 3			
SC-6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)	Implemented?		
Onsite storm drain inlets	☒ Yes	☐ No	☐ N/A
Interior floor drains and elevator shaft sump pumps	☐Yes	☐ No	☒ N/A
Interior parking garages	☐ Yes	☐ No	☒ N/A
Need for future indoor & structural pest control	☐ Yes	☐ No	☒ N/A
Landscape/outdoor pesticide use	☒ Yes	☐ No	☐ N/A
Pools, spas, ponds, decorative fountains, and other water features	☐ Yes	☐ No	☒ N/A
Food service	☐ Yes	☐ No	☒ N/A
Refuse area	☐ Yes	☐ No	☒ N/A
Industrial processes	☐ Yes	☐ No	☒ N/A
Outdoor storage of equipment or materials	☐ Yes	☐ No	☒ N/A
Vehicle and equipment cleaning	☐ Yes	☐ No	☒ N/A
Vehicle/equipment repair and maintenance	☐ Yes	☐ No	☒ N/A
Fuel dispensing areas	☐ Yes	☐ No	☒ N/A
Loading docks	☐ Yes	☐ No	☒ N/A
Fire sprinkler test water	☒ Yes	☐ No	☐ N/A
Miscellaneous drain or wash water	☒ Yes	☐ No	☐ N/A
Plazas, sidewalks, and parking lots	☒ Yes	☐ No	☐ N/A
Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for <u>all</u> "No" answers shown above.			

Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for all "No" answers shown above.

- SC-6A: All onsite storm drain inlets to be marked with legend "NO DUMPING, FLOWS TO BAY", or similar.
- SC-6B: There's no "Interior floor drains and elevator shaft sump pumps" contemplated for this project.
- SC-6C: There's no "Interior parking garages" contemplated for this project.
- SC-6D1: There's no "Need for future indoor & structural pest control" contemplated for this project.
- SC-6D2: Final landscape plans will accomplish all of the following:
    - Preserve existing drought tolerant trees, shrubs, and ground cover to the maximum extent possible.
    - Landscaping designed to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to storm water pollution.
    - Where landscaped areas are used to retain or detain storm water, use plants that are tolerant of periodic saturated soil conditions.
    - Use pest-resistant plants, especially adjacent to hardscape.
    - Ensure successful establishment, appropriate selection of plants to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.
- SC-6E: There's no "Pools, spas, ponds, decorative fountains, and other water features" contemplated for this project.
- SC-6F: There's no "Food Service" contemplated for this project.
- SC-6G: There's no "Refuse areas" contemplated for this project.

- SC-6H: There's no "Industrial processes" contemplated for this project.
- SC-6I: There's no "Outdoor storage of equipment or materials" contemplated for this project.
- SC-6J: There's no "Vehicle and equipment cleaning" contemplated for this project.
- SC-6K: There's no "Vehicle/equipment repair and maintenance" contemplated for this project.
- SC-6L: There's no "Fuel dispensing areas" contemplated for this project.
- SC-6M: There's no "Loading Docks" contemplated for this project.
- SC-6N: "Fire Sprinkler Test Water" will drain to sanitary sewer
- SC-6O: Final architect's and engineer's plans will accomplish all the following:
    - Boiler drain lines will be directly or indirectly connected to the sanitary sewer system and will not discharge to the storm drain system.
    - Rooftop mounted equipment with potential to produce pollutants will be roofed and/or have secondary containment.
    - Roofing, gutters, and trim made won't be made of copper or other unprotected metals that may leach into runoff.
- SC-6P: Plazas, sidewalks, and parking lots will be swept regularly to prevent the accumulation of litter and debris.

Site Design BMP Checklist for All Development Projects (Standard Projects and PDPs)	Form I-5

Project Identification

Project Name: Pacfica Elementary School

Permit Application Number: GPA22-00001

Site Design BMPs

All development projects must implement site design BMPs SD-1 through SD-8 where applicable and feasible. See Chapter 4 and Appendix E of the manual for information to implement site design BMPs shown in this checklist.

Answer each category below pursuant to the following.

- "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the manual. Discussion / justification is not required.
- "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project site has no existing natural areas to conserve). Discussion / justification may be provided.

Site Design Requirement	Applied?		
SD-1 Maintain Natural Drainage Pathways and Hydrologic Features	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-1 not implemented: Natural permeable soil on the existing slopes (30% of the parcels area) was maintained. The slopes adjacent to the existing pathway west of the side was maintained			
SD-2 Conserve Natural Areas, Soils, and Vegetation	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-2 not implemented: Natural soil and vegetation on the existing slopes (30% of the parcels area) was maintained.			
SD-3 Minimize Impervious Area	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-3 not implemented: Streets, sidewalks & parking aisles were designed with widths minimized as much as possible.			
SD-4 Minimize Soil Compaction	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-4 not implemented: Proposed landscaped areas will be compacted as minimally as possible.			

Form I-5 Page 2 of 2			
Site Design Requirement	Applied?		
SD-5 Impervious Area Dispersion	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-5 not implemented: Pervious areas included where project design allows in order to disperse impervious areas. However, dispersion is not implemented such that the DCV can be confidently reduced. Roofs, driveways and hardscape are routed through landscaped areas where possible.			
SD-6 Runoff Collection	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-6 not implemented: Small collection strategies located as close as possible to the sources (i.e. the point where storm water initially meets the ground) to minimize the transport of runoff and pollutants to the MS4 and receiving waters			
SD-7 Landscaping with Native or Drought Tolerant Species	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-7 not implemented: Native and drought tolerant species will be included in landscape design			
SD-8 Harvesting and Using Precipitation	☐ Yes	☐ No	☒ N/A
Discussion / justification if SD-8 not implemented: The maintenance cost and effort to monitor and clean the rain barrels regularly to ensure that they do not become clogged with leaves and other debris, while they have a limited use as they may fill only a few times each year, due to San Diego's arid climate. Therefore, harvesting and using were not used and all the roof areas have been routed to the structural BMPs to treat the DCV. Harvest and use is determined to be infeasible per Form I-4			

Summary of PDP Structural BMPs	Form I-6 (PDPs)
Project Identification	
Project Name: Pacifica Elementary School	
Permit Application Number: GPA22-00001	
PDP Structural BMPs	
All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the manual). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the manual). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s). PDP structural BMPs must be verified by the local jurisdiction at the completion of construction. This may include requiring the project owner or project owner's representative to certify construction of the structural BMPs (see Section 1.12 of the manual). PDP structural BMPs must be maintained into perpetuity, and the local jurisdiction must confirm the maintenance (see Section 7 of the manual). Use this form to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (page 3 of this form) for each structural BMP within the project (copy the BMP summary information page as many times as needed to provide summary information for each individual structural BMP).	

Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the manual were followed, and the results (type of BMPs selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate.

The selection , sizing, and preliminary design of the storm water treatment and other control measures in this plan was done based on City of Oceanside's BMP Design Manual.

Step 1 of section 5.1 is to determine the DCV. The DCV of both DMA 1 and DMA 2 were determined using Worksheet B.1. Step 2 of Section 5.1 is the determine retention requirements. The retention requirements for both DMA's were determined using Worksheet B.2. Step 3 of section 5.1 is to determine BMP performance. The BMP performance for DMA 1 was determined using Worksheet B.3 and both pollutant control and flow control were implemented in the proposed Biofiltration basin. The BMP performance for DMA 2 was determined using Worksheet B.6-2 and pollutant control was implemented in the proposed Filterra Unit.

Harvest and use deemed indefeasible using form I-7 (and Line 7 of Worksheet B.2)

Infiltration is determined to be infeasible. See for I-8 for details.

Operation and Maintenance forms have been filled out using the City of Oceanside BMP Operations and Maintenance Plan and the required checklist are provided. This O&M is a place holder. Final O&M will be provided with Final Engineering SWQMP

(Continue on page 2 as necessary.)

Form I-6 Page 1 of 2
Structural BMP Summary Information (Copy this page as needed to provide information for each individual proposed structural BMP)
Structural BMP ID No. BF-1-1 (DMA 1)
Construction Plan Sheet No. 6
Type of structural BMP: ☐Retention by harvest and use (HU-1) ☐Retention by infiltration basin (INF-1) ☐Retention by bioretention (INF-2) ☐Retention by permeable pavement (INF-3) ☐Partial retention by biofiltration with partial retention (PR-1) ☒Biofiltration (BF-1) ☐Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide BMP type/description in discussion section below) ☐Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) ☐Flow-thru treatment control with alternative compliance (provide BMP type/description in discussion section below) ☐Detention pond or vault for hydromodification management ☐Other (describe in discussion section below)
Purpose: ☐Pollutant control only ☐Hydromodification control only ☒Combined pollutant control and hydromodification control ☐Pre-treatment/forebay for another structural BMP ☐Other (describe in discussion section below)

Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification forms if required by the [City Engineer] (See Section 1.12 of the manual)	Alisa Vialpando, RCE. AVialpando@HunsakerSD.com
Who will be the final owner of this BMP?	Meritage Homes
Who will maintain this BMP into perpetuity?	Meritage Homes
What is the funding mechanism for maintenance?	Meritage Homes

Form I-6 Page 2 of 2
Structural BMP Summary Information (Copy this page as needed to provide information for each individual proposed structural BMP)
Structural BMP ID No. BF-3-2 (DMA 2)
Construction Plan Sheet No. 5
Type of structural BMP: ☐Retention by harvest and use (HU-1) ☐Retention by infiltration basin (INF-1) ☐Retention by bioretention (INF-2) ☐Retention by permeable pavement (INF-3) ☐Partial retention by biofiltration with partial retention (PR-1) ☒Proprietary Biofiltration (BF-3) ☐Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide BMP type/description in discussion section below) ☐Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) ☐Flow-thru treatment control with alternative compliance (provide BMP type/description in discussion section below) ☐Detention pond or vault for hydromodification management ☐Other (describe in discussion section below)
Purpose: ☒Pollutant control only ☐Hydromodification control only ☐Combined pollutant control and hydromodification control ☐Pre-treatment/forebay for another structural BMP ☐Other (describe in discussion section below)

Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification forms if required by the [City Engineer] (See Section 1.12 of the manual)	Alisa Vialpando, RCE. AVialpando@HunsakerSD.com
Who will be the final owner of this BMP?	Meritage Homes
Who will maintain this BMP into perpetuity?	Meritage Homes
What is the funding mechanism for maintenance?	Meritage Homes

	City of Oceanside 300 N Coast Highway Oceanside, CA 92054	**Permanent BMP Construction** **Self Certification Form**	February 2016

Date Prepared: Click here to enter text.	Project No.: Click here to enter text.
Project Applicant: Click here to enter text.	Phone: Click here to enter text.
Project Address: Click here to enter text.	
Project Engineer: Click here to enter text.	Phone: Click here to enter text.

The purpose of this form is to verify that the site improvements for the project, identified above, have been constructed in conformance with the approved Storm Water Quality Management Plan (SWQMP) documents and drawings.

This form must be completed by the engineer and installing contractor and submitted prior to final inspection of the construction permit. Completion and submittal of this form is required for all new development and redevelopment projects in order to comply with the City's Storm Water ordinances and NDPES Permit Order No. R9-2013-0001. Final inspection for occupancy and/or release of grading or public improvement bonds may be delayed if this form is not submitted and approved by the City of Oceanside.

ENGINEER'S CERTIFICATION:

As the professional in responsible charge for the design of the above project, I certify that I have inspected all constructed Low Impact Development (LID) site design, source control and treatment control BMP's required per the approved SWQMP and Construction Permit No. Click here to enter text.; and that said BMP's have been constructed in compliance with the approved plans and all applicable specifications, permits, ordinances and Order No. R9-2013-0001 of the San Diego Regional Water Quality Control Board.

I understand that this BMP certification statement does not constitute an operation and maintenance verification.

Signature: _____

Date of Signature: _ Click here to enter text.__

Printed Name: _ Click here to enter text._____

Title: _ Click here to enter text._____

Phone No. _ Click here to enter text. _____

Engineer's Stamp

CONTRACTOR'S CERTIFICATION:

As the professional in responsible charge for construction of the above project, I certify that all constructed Low Impact Development (LID) site design, source control and treatment control BMP's required per the approved SWQMP and Construction Permit No. Click here to enter text.; have been constructed in compliance with the approved plans and all applicable specifications, permits, and ordinances.

I understand that this BMP certification statement does not constitute an operation and maintenance verification.

Signature: _____

Date of Signature: _ Click here to enter text.__

Printed Name: _ Click here to enter text._____

Title: _ Click here to enter text._____

Phone No. _ Click here to enter text. _____

ATTACHMENT 1

BACKUP FOR PDP POLLUTANT CONTROL BMPS

This is the cover sheet for Attachment 1.

Indicate which Items are Included:

Attachment Sequence	Contents	Checklist
Attachment 1a	DMA Exhibit (Required) See DMA Exhibit Checklist.	☒Included
Attachment 1b	Tabular Summary of DMAs Showing DMA ID matching DMA Exhibit, DMA Area, and DMA Type (Required)* *Provide table in this Attachment OR on DMA Exhibit in Attachment 1a	☐Included on DMA Exhibit in Attachment 1a ☒Included as Attachment 1b, separate from DMA Exhibit
Attachment 1c	Design Capture Volume Worksheet	☒Included
Attachment 1d	Form I-7, Harvest and Use Feasibility Screening Checklist (Required unless the entire project will use infiltration BMPs) Refer to Appendix B.3-1 of the BMP Design Manual to complete Form I-7.	☒Included ☐Not included because the entire project will use infiltration BMPs Feasibility addressed by Line 7 of Worksheet B.2
Attachment 1e	Form I-8, Categorization of Infiltration Feasibility Condition (Required unless the project will use harvest and use BMPs) Refer to Appendices C and D of the BMP Design Manual to complete Form I-8.	☒Included ☐Not included because the entire project will use harvest and use BMPs Feasibility addressed by Line 4 of Worksheet B.2
Attachment 1f	Pollutant Control BMP Design Worksheets / Calculations (Required) Refer to Appendices B and E of the BMP Design Manual for structural pollutant control BMP design guidelines	☒Included

Use this checklist to ensure the required information has been included on the DMA Exhibit:

The DMA Exhibit must identify:

☒Underlying hydrologic soil group
☒Approximate depth to groundwater
☒Existing natural hydrologic features (watercourses, seeps, springs, wetlands)
☐Critical coarse sediment yield areas to be protected
☒Existing topography and impervious areas
☒Existing and proposed site drainage network and connections to drainage offsite
☒Proposed grading
☒Proposed impervious features
☒Proposed design features and surface treatments used to minimize imperviousness
☒Drainage management area (DMA) boundaries, DMA ID numbers, and DMA areas (square footage or acreage), and DMA type (i.e., drains to BMP, self-retaining, or self-mitigating)
☐Potential pollutant source areas and corresponding required source controls (see Chapter 4, Appendix E.1, and Form I-3B)
☒Structural BMPs (identify location, type of BMP, and size/detail)

Placeholder – **DMA Exhibit**

Please provide the Exhibit in 24”x36” format with map pocket, wet stamp, and date.

LEGEND

- PROJECT BOUNDARY
- DMA BOUNDARY
- FLOW DIRECTION
- BYPASS STORM DRAIN
- STORM DRAIN
- ON-SITE STORM DRAIN INLETS
- 00.00 ACRES — SUBAREA ACREAGE
- DMA 1 — DMA ICON
- IMPERVIOUS - ROAD/SIDEWALK/ DRIVEWAY
- IMPERVIOUS - ROOF/BUILDING
- PERVIOUS - LANDSCAPE
- BIOFILTRATION BASIN
- B D — HYDROLOGIC SOIL TYPE
- X — POINT OF COMPLIANCE
- STRUCTURAL BMP
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA
- DECOMPOST GRANIET
- DISTURBED AREA BOUNDARY

SITE DESIGN BMPs

SD-1 MAINTAIN NATURAL HYDROLOGIC FEATURES
SD-2 CONSERVE NATURAL AREAS, SOILS, VEGETATION
SD-3 MINIMIZE IMPERVIOUS AREAS
SD-4 MINIMIZE SOIL COMPACTION
SD-5 IMPERVIOUS AREA DISPERSION
SD-6 RUNOFF COLLECTION
SD-7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES

SOURCE CONTROL BMPs

SC-1 PREVENTION OF ILLICIT DISCHARGES TO MS4
SC-2 STORM DRAIN STENCILING OR SIGNAGE
SC-6 ADDITIONAL BMPS BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS
SC-6A ON-SITE STORM DRAIN INLETS
SC-6D2 LANDSCAPE/OUTDOOR PESTICIDE USE
SC-6N FIRE SPRINKLE TEST WATER
SC-6O MISCELLEANEOUS DRAIN OR WASH WATER
SC-6P PLAZAS, SIDEWALKS, AND PARKING LOTS

UNDERLYING SOIL GROUP : B & D
APPROXIMATE DEPTH TO GROUNDWATER > 20'
NO CRITICAL COARSE AREAS REQUIRE PRESERVATION

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 FX(858)558-1414

DMA MAP
PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 2

W.O.# 3087-0010

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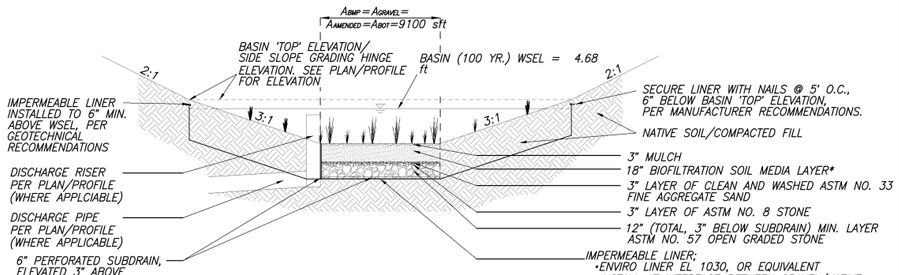
BIOFILTRATION BASIN CROSS SECTION

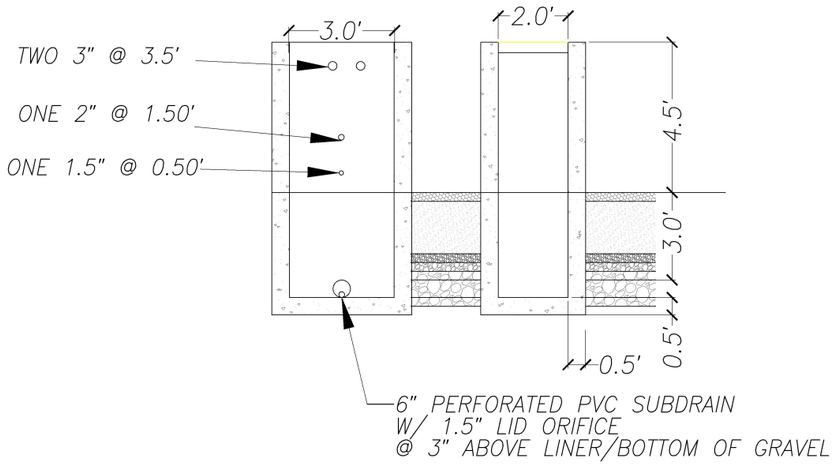


BIORETENTION SOIL MEDIA (BSM):
- 18" MINIMUM THICKNESS.
- 70% TO 85% BY VOLUME WASHED SAND AND 15% TO 30% BY VOLUME COMPOST OR ALTERNATIVE ORGANIC AMENDMENT.
- BSM: THE C:N RATIO OF BSM SHALL BE BETWEEN 15 AND 40 TO REDUCE THE POTENTIAL FOR NITRATE LEACHING.
- MUST MAINTAIN A MINIMUM PERCOLATION RATE OF 5 INCHES PER HOUR THROUGHOUT THE LIFE OF THE FACILITY, AND IT MUST BE SUITABLE FOR MAINTAINING PLANT LIFE.
- FOR ADDITIONAL INFORMATION REFER TO APPENDIX F.3 OF THE CITY OF SAN DIEGO STORM WATER STANDARDS MANUAL.

BIOFILTRATION PLANTING NOTE:
- ALL PLANTING IN 'BIOFILTRATION' AREAS SHALL CONFORM TO APPENDIX 'E' OF THE CITY OF SAN DIEGO LOW IMPACT DESIGN MANUAL.

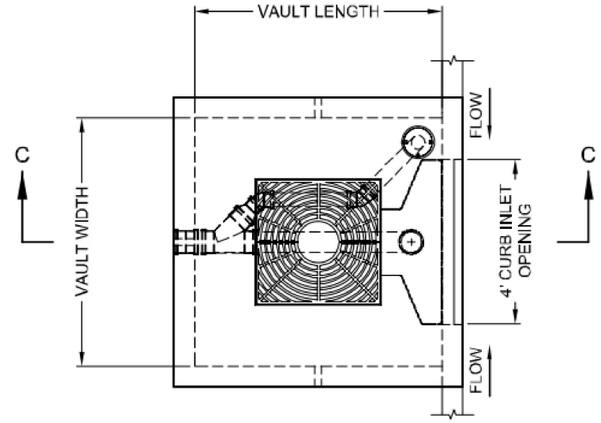
SOIL SECTION FOR WATER QUALITY/HYDROMODIFICATION BIOFILTRATION BASIN

NOT TO SCALE

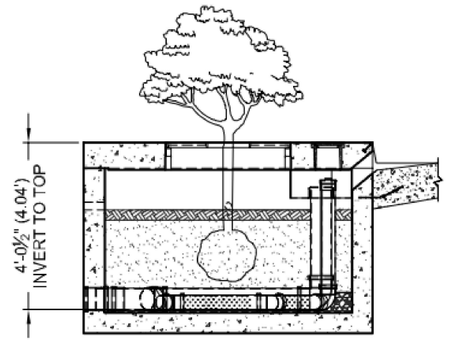


PRIVATE BIOFILTRATION BASIN BF-1-1

RISER DETAIL



PLAN VIEW



SECTION C-C

PROPRIETARY BIOFILTRATIONBASIN BMP BF-3-2

FILTERRA UNIT FTIBC0608

PREPARED BY:

HUNSAKER & ASSOCIATES SAN DIEGO, INC

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SURVEYING PH(858)558-4500 · FX(858)558-1414

DMA MAP
PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 2 OF 2

W.O.# 3087-0010

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Tubular Summary of DMAs

BIOFILTRATION BMP DMA CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1		Imp. RF	Pervious RF	% Imp	DMA 1	Fraction of Total	Imp Area	Pervious Area	Summation RF x A	DMA 2	Fraction of Total	Imp Area	Pervious Area	Summation RF x A
2					SQFT		SQFT	SQFT		SQFT		SQFT	SQFT	
3	BASIN	0.90	0.10	0	9100	0.00	0	9100	910	0	0.00	0	0	0
4	Sidewalk	0.90	0.10	100	36681	0.11	36681	0	33013	3473	0.12	3473	0	3126
5	Landscape/Slopes	0.90	0.10	0	102068	0.03	0	102068	10207	7274	0.03	0	7274	727
6	ROOFS*	0.90	0.10	100	145776	0.45	145776	0	131199	16074	0.57	16074	0	14466
7	ROAD/DRIVEWAY	0.90	0.10	100	102213	0.31	102213	0	91992	7932	0.28	7932	0	7139
8	Exisitng offsite landscape and slopes	0.90	0.30	0	12791	0.01	0	12791	3837	0	0.00	0	0	0
9	Existing on site slope (not to be disturbed) \ propsed DG**	0.90	0.30	0	29406	13608.84	0	29406	8822	0	0.00	0	0	0
10	Exisitng roof \ SW\Road	0.90	0.10	100	15784	0.05	15784	0	14206	0	0.00	0	0	0
11					453820	13609.81	300454	153366	294185	34753	1.00	27479	7274	25458
12									Weighted C =	0.65			Weighted C =	0.73
13	* 15% OF THE BUILDING FOOTPRINT HAS BEEN ADDED TO THE ROOF AREA TO BE MORE CONSERVATIVE IN THE IMPERVIOUS AREA CACULATIONS AND COUNT FOR ANY ADDITIONAL FLATWORK													
14	** 2,200 sft proposed DG													
15		SFT	AC											
16	Total Impervious area	327,933	7.53											
17	newly Created or replaced impervious area	312,149	7.17											
18	Exisitng impervious Drains to the proposed BMP	15783.9	0.36											
19	Parcel Area	633,638	14.55											
20	Disturbed area by the project that drains to BMps	432,792	9.94											
21	proposed landscaped slopes that drains directly to the brow ditches and bypass system (Self Mitigating)	10,358	0.24											
22	Project Proposed Pervious area (including Self mitigating slopes)	131,001	3.01											
23	Total Disturbed Area	443,150	10.17											

Infiltration Feasibility Checklists

Infiltration Restrictions		Form 4	
Retention is required at the project site to the maximum extent practicable. Complete this form to summarize applicable infiltration restrictions. Supporting documentation must be provided in the Attachments.			
	Restriction Element	**Applicable?**	
Mandatory Considerations	BMP is within 100 feet of contaminated soils	☐ Yes	☒ No
	BMP is within 100 feet of industrial activities lacking source control	☐ Yes	☒ No
	BMP is within 100 feet of well/groundwater basin	☐ Yes	☒ No
	BMP is within 50 feet of septic tanks/leach fields	☐ Yes	☒ No
	BMP is within 10 feet of structures/tanks/walls	☐ Yes	☒ No
	BMP is within 10 feet of sewer utilities	☐ Yes	☒ No
	BMP is within 10 feet of groundwater table	☐ Yes	☒ No
	BMP is within hydric soils	☐ Yes	☒ No
	BMP is within highly liquefiable soils and has connectivity to structures	☐ Yes	☒ No
	BMP is within 1.5 times the height of adjacent steep slopes (≥25%)	☒ Yes	☐ No
	City staff has assigned "Restricted" Infiltration Category	☐ Yes	☒ No
Optional Considerations	BMP is within predominantly Type D soil	☐ Yes	☐ No
	BMP is within 10 feet of property line	☐ Yes	☐ No
	BMP is within fill depths of ≥5 feet (existing or proposed)	☐ Yes	☐ No
	BMP is within 10 feet of underground utilities	☐ Yes	☐ No
	BMP is within 250 feet of ephemeral stream	☐ Yes	☐ No
	Other (provide detailed geotechnical support in Attachment 6)	☐ Yes	☐ No
Result	**Unrestricted** – No restriction elements are applicable	☐	
	Restricted – One or more restriction elements are applicable	☒	

CERTIFIED ENGINEERING GEOLOGIST
Christopher D. Livesey
2733
STATE OF CALIFORNIA

Gaby Bogdanoff

LICENSED PROFESSIONAL ENGINEER
GABY M. BOGDANOFF
NO. 3133
GEOTECHNICAL
STATE OF CALIFORNIA

Categorization of Infiltration Feasibility Condition	Form I-8

Part 1 - Full Infiltration Feasibility Screening Criteria

Would infiltration of the full design volume be feasible from a physical perspective without any undesirable consequences that cannot be reasonably mitigated?

Criteria	Screening Question	Yes	No
1	Is the estimated reliable infiltration rate below proposed facility locations greater than 0.5 inches per hour? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.	☐	☒

Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.

2	Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.	☐	☒

Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.

Form I-8 Page 2 of 4			
Criteria	Screening Question	Yes	No
3	Can infiltration greater than 0.5 inches per hour be allowed without increasing risk of groundwater contamination (shallow water table, storm water pollutants or other factors) that cannot be mitigated to an acceptable level? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	☐	☒
Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
4	Can infiltration greater than 0.5 inches per hour be allowed without causing potential water balance issues such as change of seasonality of ephemeral streams or increased discharge of contaminated groundwater to surface waters? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	☐	☒
Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
Part 1 Result *	If all answers to rows 1 - 4 are "Yes" a full infiltration design is potentially feasible. The feasibility screening category is Full Infiltration If any answer from row 1-4 is "No", infiltration may be possible to some extent but would not generally be feasible or desirable to achieve a "full infiltration" design. Proceed to Part 2	☐Full Infiltration ☒No	

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by Agency/Jurisdictions to substantiate findings

Form I-8 Page 3 of 4

Part 2 – Partial Infiltration vs. No Infiltration Feasibility Screening Criteria

Would infiltration of water in any appreciable amount be physically feasible without any negative consequences that cannot be reasonably mitigated?

Criteria	Screening Question	Yes	No
5	Do soil and geologic conditions allow for infiltration in any appreciable rate or volume? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2 and Appendix D.	☐	☒

Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

6	Can Infiltration in any appreciable quantity be allowed without increasing risk of geotechnical hazards (slope stability, groundwater mounding, utilities, or other factors) that cannot be mitigated to an acceptable level? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.2.	☐	☒

Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4.

Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.

Form I-8 Page 4 of 4			
Criteria	Screening Question	Yes	No
7	Can Infiltration in any appreciable quantity be allowed without posing significant risk for groundwater related concerns (shallow water table, storm water pollutants or other factors)? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	☐	☒
Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
8	Can infiltration be allowed without violating downstream water rights? The response to this Screening Question shall be based on a comprehensive evaluation of the factors presented in Appendix C.3.	☐	☒
Provide basis: Assumed "No" but not confirmed. Infiltration deemed infeasible by the Geotechnical Engineer. See Form 4. Summarize findings of studies; provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability and why it was not feasible to mitigate low infiltration rates.			
Part 2 Result*	If all answers from row 1-4 are yes then partial infiltration design is potentially feasible. The feasibility screening category is Partial Infiltration. If any answer from row 5-8 is no, then infiltration of any volume is considered to be infeasible within the drainage area. The feasibility screening category is No Infiltration.	☐Partial Infiltration ☒No Infiltration	

*To be completed using gathered site information and best professional judgment considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by Agency/Jurisdictions to substantiate findings

Pollutant Control BMP Design Calculations

Automated Worksheet B.1: Calculation of Design Capture Volume (V2.0)

Category	#	Description	i	ii	iii	iv	v	vi	vii	viii	ix	x	Units
Standard Drainage Basin Inputs	1	Drainage Basin ID or Name	DMA 1	DMA 2									unitless
	2	85th Percentile 24-hr Storm Depth	0.67	0.67									inches
	3	Impervious Surfaces Not Directed to Dispersion Area (C=0.90)	300,454	27,479									sq-ft
	4	Semi-Pervious Surfaces Not Serving as Dispersion Area (C=0.30)	0	0									sq-ft
	5	Engineered Pervious Surfaces Not Serving as Dispersion Area (C=0.10)	102,068	7,274									sq-ft
	6	Natural Type A Soil Not Serving as Dispersion Area (C=0.10)	0	0									sq-ft
	7	Natural Type B Soil Not Serving as Dispersion Area (C=0.14)	0	0									sq-ft
	8	Natural Type C Soil Not Serving as Dispersion Area (C=0.23)	0	0									sq-ft
	9	Natural Type D Soil Not Serving as Dispersion Area (C=0.30)	42,012	0									sq-ft
Dispersion Area, Tree Well & Rain Barrel Inputs (Optional)	10	Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels?	No	No	No	No	No	No	No	No	No	No	yes/no
	11	Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)											sq-ft
	12	Semi-Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.30)											sq-ft
	13	Engineered Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.10)											sq-ft
	14	Natural Type A Soil Serving as Dispersion Area per SD-B (Ci=0.10)											sq-ft
	15	Natural Type B Soil Serving as Dispersion Area per SD-B (Ci=0.14)											sq-ft
	16	Natural Type C Soil Serving as Dispersion Area per SD-B (Ci=0.23)											sq-ft
	17	Natural Type D Soil Serving as Dispersion Area per SD-B (Ci=0.30)											sq-ft
	18	Number of Tree Wells Proposed per SD-A											#
	19	Average Mature Tree Canopy Diameter											ft
	20	Number of Rain Barrels Proposed per SD-E											#
	21	Average Rain Barrel Size											gal
Initial Runoff Factor Calculation	22	Total Tributary Area	444,534	34,753	0	0	0	0	0	0	0	0	sq-ft
	23	Initial Runoff Factor for Standard Drainage Areas	0.66	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	24	Initial Runoff Factor for Dispersed & Dispersion Areas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	25	Initial Weighted Runoff Factor	0.66	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	26	Initial Design Capture Volume	16,381	1,416	0	0	0	0	0	0	0	0	cubic-feet
Dispersion Area Adjustments	27	Total Impervious Area Dispersed to Pervious Surface	0	0	0	0	0	0	0	0	0	0	sq-ft
	28	Total Pervious Dispersion Area	0	0	0	0	0	0	0	0	0	0	sq-ft
	29	Ratio of Dispersed Impervious Area to Pervious Dispersion Area	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ratio
	30	Adjustment Factor for Dispersed & Dispersion Areas	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	ratio
	31	Runoff Factor After Dispersion Techniques	0.66	0.73	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	unitless
	32	Design Capture Volume After Dispersion Techniques	16,381	1,416	0	0	0	0	0	0	0	0	cubic-feet
Tree & Barrel Adjustments	33	Total Tree Well Volume Reduction	0	0	0	0	0	0	0	0	0	0	cubic-feet
	34	Total Rain Barrel Volume Reduction	0	0	0	0	0	0	0	0	0	0	cubic-feet
Results	35	Final Adjusted Runoff Factor	0.66	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	36	Final Effective Tributary Area	293,392	25,370	0	0	0	0	0	0	0	0	sq-ft
	37	Initial Design Capture Volume Retained by Site Design Elements	0	0	0	0	0	0	0	0	0	0	cubic-feet
	38	Final Design Capture Volume Tributary to BMP	16,381	1,416	0	0	0	0	0	0	0	0	cubic-feet

No Warning Messages

Automated Worksheet B.2: Retention Requirements (V2.0)

Category	#	Description	i	ii	iii	iv	v	vi	vii	viii	ix	x	Units
Basic Analysis	1	Drainage Basin ID or Name	DMA 1	DMA 2	-	-	-	-	-	-	-	-	unitless
	2	85th Percentile Rainfall Depth	0.67	0.67	-	-	-	-	-	-	-	-	inches
	3	Predominant NRCS Soil Type Within BMP Location	B	D									unitless
	4	Is proposed BMP location Restricted or Unrestricted for Infiltration Activities?	Restricted	Restricted									unitless
	5	Nature of Restriction	Slopes	n/a									unitless
	6	Do Minimum Retention Requirements Apply to this Project?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	yes/no
	7	Are Habitable Structures Greater than 9 Stories Proposed?	no	No									yes/no
Advanced Analysis	8	Has Geotechnical Engineer Performed an Infiltration Analysis?	No	No									yes/no
	9	Design Infiltration Rate Recommended by Geotechnical Engineer											in/hr
Result	10	Design Infiltration Rate Used To Determine Retention Requirements	0.000	0.000	-	-	-	-	-	-	-	-	in/hr
	11	Percent of Average Annual Runoff that Must be Retained within DMA	1.5%	1.5%	-	-	-	-	-	-	-	-	percentage
	12	Fraction of DCV Requiring Retention	0.01	0.01	-	-	-	-	-	-	-	-	ratio
	13	Required Retention Volume	164	14	-	-	-	-	-	-	-	-	cubic-feet

No Warning Messages

14 CFT REQUIRED MINIMU RETENTION FOR DMA 2 IS PROVIDED WITHIN THE BIOFILTRATION AREA IN BF-1-1
TOTAL REQUIRED RETENTION VOLUME FOR THE PROJECT (DMA1 + DMA 2) = 164+14= 178 CFT
VOLUME RETAINED BY BF-1-1 (LINE 27 IN STEP 3: WORKSHEET B.3 : BMP PERFORMANCE)= 2,143 CFT > 178 CFT

Automated Worksheet B.3: BMP Performance (V2.0)

Category	#	Description	i	ii	iii	iv	v	vi	vii	viii	ix	x	Units
BMP Inputs	1	Drainage Basin ID or Name	DMA 1	DMA 2	-	-	-	-	-	-	-	-	sq-ft
	2	Design Infiltration Rate Recommended	0.000	0.000	-	-	-	-	-	-	-	-	in/hr
	3	Design Capture Volume Tributary to BMP	16,381	1,416	-	-	-	-	-	-	-	-	cubic-feet
	4	Is BMP Vegetated or Unvegetated?	Vegetated										unitless
	5	Is BMP Impermeably Lined or Unlined?	Lined										unitless
	6	Does BMP Have an Underdrain?	Underdrain										unitless
	7	Does BMP Utilize Standard or Specialized Media?	Standard										unitless
	8	Provided Surface Area	9,100										sq-ft
	9	Provided Surface Ponding Depth	6										inches
	10	Provided Soil Media Thickness	24										inches
	11	Provided Gravel Thickness (Total Thickness)	12										inches
	12	Underdrain Offset	3										inches
	13	Diameter of Underdrain or Hydromod Orifice (Select Smallest)	1.50										inches
	14	Specialized Soil Media Filtration Rate											in/hr
	15	Specialized Soil Media Pore Space for Retention											unitless
	16	Specialized Soil Media Pore Space for Biofiltration											unitless
	17	Specialized Gravel Media Pore Space											unitless
Retention Calculations	18	Volume Infiltrated Over 6 Hour Storm	0	0	0	0	0	0	0	0	0	0	cubic-feet
	19	Ponding Pore Space Available for Retention	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	unitless
	20	Soil Media Pore Space Available for Retention	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	unitless
	21	Gravel Pore Space Available for Retention (Above Underdrain)	0.00	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	unitless
	22	Gravel Pore Space Available for Retention (Below Underdrain)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	unitless
	23	Effective Retention Depth	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	inches
	24	Fraction of DCV Retained (Independent of Drawdown Time)	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ratio
	25	Calculated Retention Storage Drawdown Time	120	0	0	0	0	0	0	0	0	0	hours
	26	Efficacy of Retention Processes	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ratio
	27	Volume Retained by BMP (Considering Drawdown Time)	2,143	0	0	0	0	0	0	0	0	0	cubic-feet
	28	Design Capture Volume Remaining for Biofiltration	14,238	1,416	0	0	0	0	0	0	0	0	cubic-feet
Biofiltration Calculations	29	Max Hydromod Flow Rate through Underdrain	0.1055	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	cfs
	30	Max Soil Filtration Rate Allowed by Underdrain Orifice	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	in/hr
	31	Soil Media Filtration Rate per Specifications	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	in/hr
	32	Soil Media Filtration Rate to be used for Sizing	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	in/hr
	33	Depth Biofiltered Over 6 Hour Storm	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	inches
	34	Ponding Pore Space Available for Biofiltration	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	unitless
	35	Soil Media Pore Space Available for Biofiltration	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	unitless
	36	Gravel Pore Space Available for Biofiltration (Above Underdrain)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	unitless
	37	Effective Depth of Biofiltration Storage	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	inches
	38	Drawdown Time for Surface Ponding	12	0	0	0	0	0	0	0	0	0	hours
	39	Drawdown Time for Effective Biofiltration Depth	29	0	0	0	0	0	0	0	0	0	hours
	40	Total Depth Biofiltered	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	inches
	41	Option 1 - Biofilter 1.50 DCV: Target Volume	21,357	2,124	0	0	0	0	0	0	0	0	cubic-feet
	42	Option 1 - Provided Biofiltration Volume	13,199	0	0	0	0	0	0	0	0	0	cubic-feet
	43	Option 2 - Store 0.75 DCV: Target Volume	10,678	1,062	0	0	0	0	0	0	0	0	cubic-feet
	44	Option 2 - Provided Storage Volume	10,678	0	0	0	0	0	0	0	0	0	cubic-feet
	45	Portion of Biofiltration Performance Standard Satisfied	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ratio
Result	46	Do Site Design Elements and BMPs Satisfy Annual Retention Requirements?	Yes	No	-	-	-	-	-	-	-	-	yes/no
	47	Overall Portion of Performance Standard Satisfied (BMP Efficacy Factor)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ratio
	48	Deficit of Effectively Treated Stormwater	0	-1,416	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	cubic-feet

Attention!

-Minimum annual retention criteria are not satisfied for each individual drainage area. Implement additional site design elements, increase structural BMP retention capacity, or demonstrate that such requirements are satisfied at the project-level.
-This BMP does not fully satisfy the performance standards for pollutant control for the drainage area.

ALTA OCEANSIDE
COMPACT BIOFILTRATION SIZING CALCULATION

DMA 1: Compact Biofiltration Design Flows		Worksheet B.6-1		
1	DCV	DCV	1,416	cubic-feet
2	DCV Retained	DCV Retained	0.00	cubic-feet
3	DCV Biofiltered	DCV Biofiltered	0.00	cubic-feet
4	DCV requiring flow-thru (Line 1 - Line 2 - 0.67*Line 3)	DCV flow-thru	1,416	cubic-feet
5	Adjustment Factor (Line 4 / Line1)	AF=	1.00	unitless
6	Design rainfall intensity	i=	0.2	in/hr
7	Area tributary to BMP(s)	A=	0.80	acres
8	using Appendix B.2)	C=	0.73	unitless
9	Calculate Flow Rate = AF x (C x i x A) x1.5	Q=	0.175	cfs

1) Adjustment factor shall be estimated considering only retention and biofiltration BMPs located upstream of Compact Biofiltration BMPs. That is, if the Compact Biofiltration BMP is upstream of the project's retention and biofiltration BMPs then the Compact Biofiltration BMP shall be sized using an adjustment factor of 1.

2) Volume based (e.g., dry extended detention basin) Compact Biofiltration treatment control BMPs shall be sized to the volume in Line 4 and flow based (e.g., vegetated swales) shall be sized to flow rate in Line 9. Sand filter and media filter can be designed by either volume in :ie 4 or flow rate in Line 9

3) Propietary BMPs, if used, shall provide certified treatment capacity equal to or greater than the calculated flow rate in Line 9; certified treatment capacoty per unit shall be consistent with third party certifications.

4) Compact Biofiltration treatment control BMPs shall be sized to filter or treat the maximum flow rate of runoff produced from a rainfaill intensity of 0.2 inch of rainfall per hour, or each hour of every storm event

Filterra Sizing Spreadsheet
San Diego Region
Uniform Intensity Approach
Storm Intensity = 0.20 in/hr

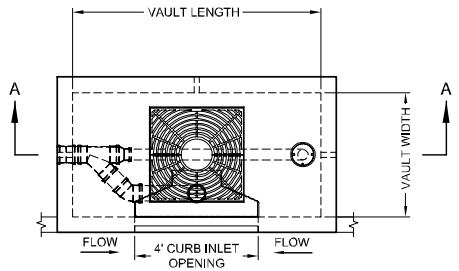
Filterra Infiltration Rate = 175 (in/hr)
Filterra Flow per Square Foot = 0.00405 (ft3/sec/ft2)

Filterra Flow Rate, Q = 0.00405 ft3/sec x Filterra Surface Area
Rational Method, Q = C x I x A
San Diego Multiplier, M = 1.5

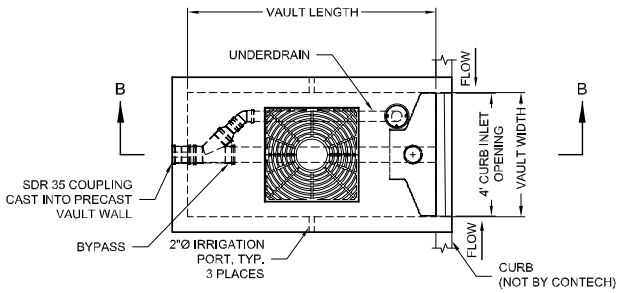
Site Flowrate, Q = (C x DI x DA x M x 43560) / (12 x3600)
OR DA = (12 x 3600 x Q) / (C x 43560 x DI x M)

where
Q = Flow (ft3/sec)
DA = Drainage Area (acres)
DI = Design Intensity (in/hr)
C = Runoff coefficient (dimensionless)
M = Multiplier (dimensionless)

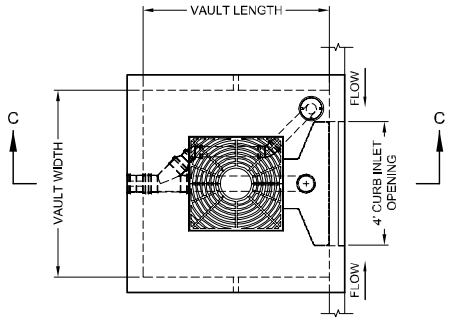
			DI 0.2	C 0.95	C 0.85	C 0.50
Available Filterra Box Sizes			Filterra Flow Rate, Q	100% Imperv. DA	Commercial max DA	Residential max DA
L (ft)	W (ft)	Filterra Surface Area (ft2)	(ft3/sec)	(acres)	(acres)	(acres)
4	4	16	0.0648	0.226	0.252	0.429
6	4	24	0.0972	0.338	0.378	0.643
6.5	4	26	0.1053	0.367	0.410	0.696
8	4	32	0.1296	0.451	0.504	0.857
12	4	48	0.1944	0.677	0.756	1.286
6	6	36	0.1458	0.507	0.567	0.964
8	6	48	0.1944	0.677	0.756	1.286
10	6	60	0.2431	0.846	0.945	1.607
12	6	72	0.2917	1.015	1.134	1.928
13	7	91	0.3686	1.283	1.434	2.437
12	8	96	0.3889	1.353	1.512	2.571
14	8	112	0.4537	1.579	1.765	3.000
16	8	128	0.5185	1.804	2.017	3.428
18	8	144	0.5833	2.030	2.269	3.857
20	8	160	0.6481	2.255	2.521	4.285
22	8	176	0.7130	2.481	2.773	4.714



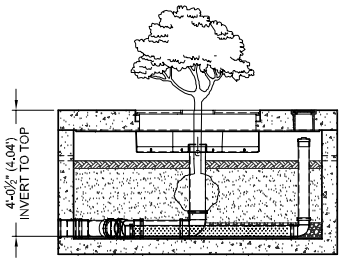
PLAN VIEW



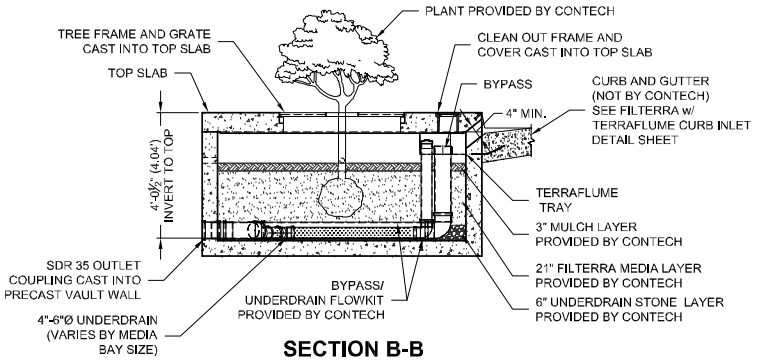
PLAN VIEW



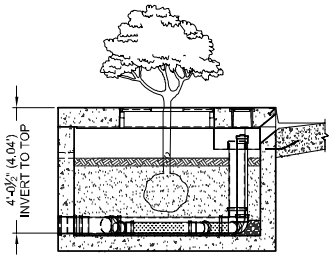
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

FTIBC LONG SIDE CURB INLET

DESIGNATION	AVAIL-ABILITY	MEDIA BAY SIZE	VAULT SIZE (L x W)	MAX. OUTLET/ BYPASS PIPE DIA.	MAX. BYPASS FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)	TREE GRATE QTY. & SIZE
FTIBC0604	N/A CA	6 x 4	6 x 4	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC06504	CA ONLY	6.5 x 4	6.5 x 4	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC078045	MID-ATL ONLY	7.83 x 4.5	7.83 x 4.5	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC0804	N/A MID-ATL	8 x 4	8 x 4	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC0806	ALL	8 x 6	8 x 6	10" SDR 35	2.37	4" SDR 35	(1) 4' x 4'
FTIBC1006	ALL	10 x 6	10 x 6	10" SDR 35	2.37	6" SDR 35	(1) 4' x 4'
FTIBC1206	ALL	12 x 6	12 x 6	10" SDR 35	2.37	6" SDR 35	(2) 4' x 4'
FTIBC1307	ALL	13 x 7	13 x 7	10" SDR 35	2.37	6" SDR 35	(2) 4' x 4'

N/A = NOT AVAILABLE

FTIBC SHORT SIDE CURB INLET

DESIGNATION	AVAIL-ABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	MAX. OUTLET/ BYPASS PIPE DIA.	MAX. BYPASS FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)	TREE GRATE QTY. & SIZE
FTIBC0406	N/A CA	4 x 6	4 x 6	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC04065	CA ONLY	4 x 6.5	4 x 6.5	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC0408	N/A MID-ATL	4 x 8	4 x 8	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC045078	MID-ATL ONLY	4.5 x 7.83	4.5 x 7.83	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'
FTIBC0608	ALL	6 x 8	6 x 8	10" SDR 35	2.37	4" SDR 35	(1) 4' x 4'
FTIBC0610	ALL	6 x 10	6 x 10	10" SDR 35	2.37	6" SDR 35	(1) 4' x 4'
FTIBC0612	ALL	6 x 12	6 x 12	10" SDR 35	2.37	6" SDR 35	(2) 4' x 4'
FTIBC0713	ALL	7 x 13	7 x 13	10" SDR 35	2.37	6" SDR 35	(2) 4' x 4'

N/A = NOT AVAILABLE

FTIBC SQUARE CURB INLET

DESIGNATION	AVAIL-ABILITY	MEDIA BAY SIZE	VAULT SIZE (L x W)	MAX. OUTLET/ BYPASS PIPE DIA.	MAX. BYPASS FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)	TREE GRATE QTY. & SIZE
FTIBC0404	ALL	4 x 4	4'-0"	6" SDR 35	1.42	4" SDR 35	(1) 3' x 3'
FTIBC0606	ALL	6 x 6	6'-0"	8" SDR 35	1.89	4" SDR 35	(1) 3' x 3'

N/A = NOT AVAILABLE

INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING ON VAULT SIZE.

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FILTERRA INTERNAL BYPASS CURB (FTIBC) CONFIGURATION DETAIL

filterra
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,277,274; 6,482,321; 7,425,262; 7,470,362; 7,753,613; AND/OR FOREIGN PATENTS.

I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\FTIBC - INTERNAL BYPASS CURB INLET\LAYOUT DETAILS\DWG\FTIBC FILTERRA INTERNAL BYPASS CURB INLET CONFIG DETAIL.DWG 11/8/2017 8:15 AM

ATTACHMENT 2
BACKUP FOR PDP HYDROMODIFICATION CONTROL MEASURES

This is the cover sheet for Attachment 2.

☐Mark this box if this attachment is empty because the project is exempt from PDP hydromodification management requirements.

Indicate which Items are Included:

Attachment Sequence	Contents	Checklist
Attachment 2a	1. Hydromodification Management Exhibit (Required)	☒Included See Hydromodification Management Exhibit Checklist.
Attachment 2b	Management of Critical Coarse Sediment Yield Areas (WMAA Exhibit is required, additional analyses are optional) See Section 6.2 of the BMP Design Manual.	☐Exhibit showing project drainage boundaries marked on WMAA Critical Coarse Sediment Yield Area Map (Required) Optional analyses for Critical Coarse Sediment Yield Area Determination ☐6.2.1 Verification of Geomorphic Landscape Units Onsite ☐6.2.2 Downstream Systems Sensitivity to Coarse Sediment ☐6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite
Attachment 2c	Geomorphic Assessment of Receiving Channels (Optional) See Section 6.3.4 of the BMP Design Manual.	☐Not performed ☐Included ☐Submitted as separate stand-alone document
Attachment 2d	Flow Control Facility Design and Structural BMP Drawdown Calculations (Required) Overflow Design Summary for each structural BMP See Chapter 6 and Appendix G of the BMP Design Manual	☐Included ☐Submitted as separate stand-alone document
Attachment 2e	Vector Control Plan (Required when structural BMPs will not drain in 96 hours)	☐Included ☐Not required because BMPs will drain in less than 96 hours

Use this checklist to ensure the required information has been included on the Hydromodification Management Exhibit:

The Hydromodification Management Exhibit must identify:

- ☒ Underlying hydrologic soil group
- ☒ Approximate depth to groundwater
- ☒ Existing natural hydrologic features (watercourses, seeps, springs, wetlands)
- ☐ Critical coarse sediment yield areas to be protected
- ☒ Existing topography
- ☒ Existing and proposed site drainage network and connections to drainage offsite
- ☒ Proposed grading
- ☒ Proposed impervious features
- ☒ Proposed design features and surface treatments used to minimize imperviousness
- ☒ Point(s) of Compliance (POC) for Hydromodification Management
- ☒ Existing and proposed drainage boundary and drainage area to each POC (when necessary, create separate exhibits for pre-development and post-project conditions)
- ☒ Structural BMPs for hydromodification management (identify location, type of BMP, and size/detail)

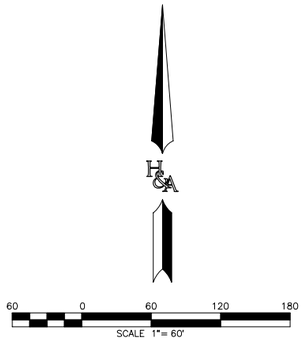
Please provide the Exhibit in 24”x36” format with map pocket, wet date, and stamp.

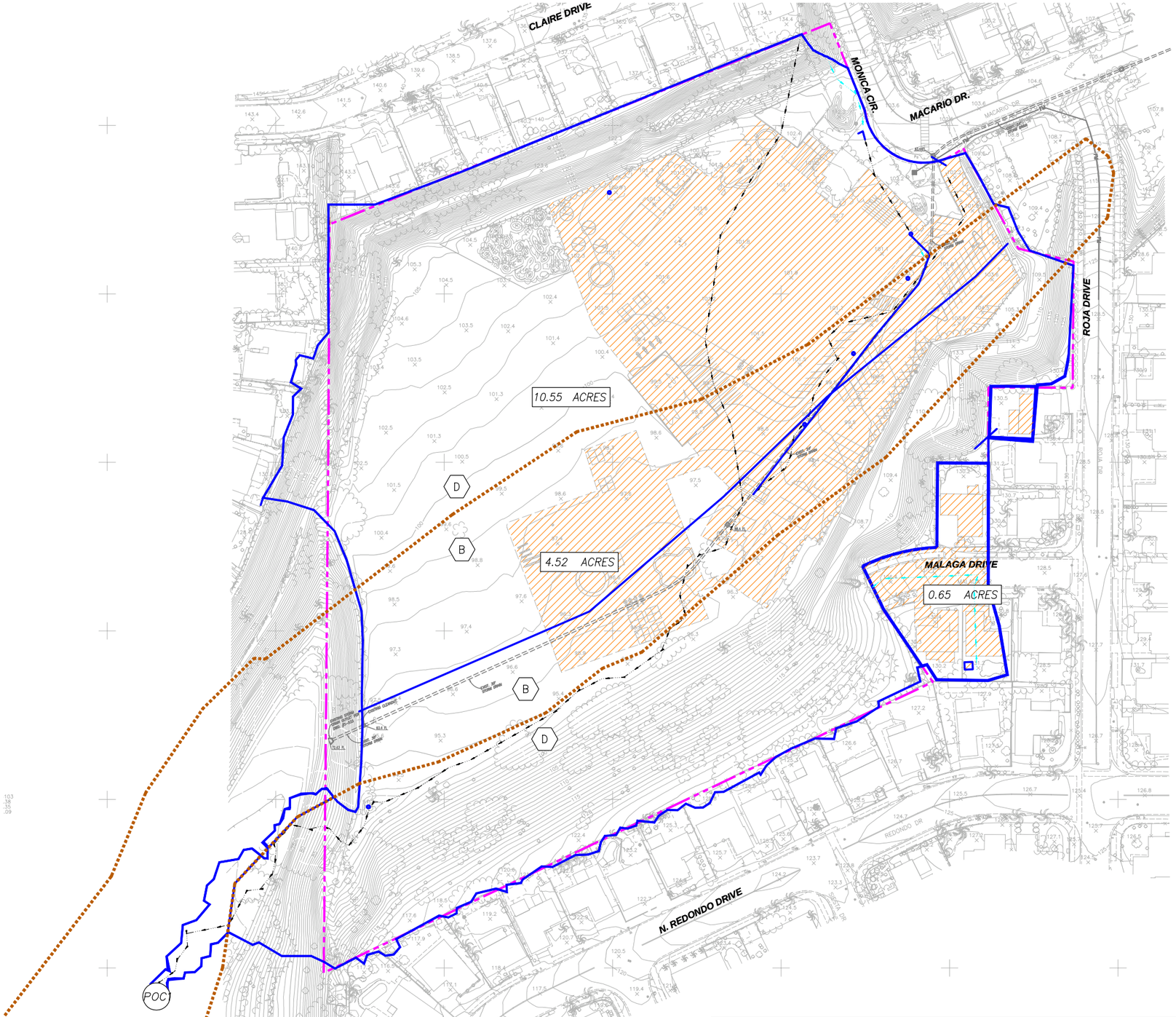
Placeholder – **Hydromodification Management Exhibit**

Replace placeholder with required exhibit.

LEGEND

- PROJECT BOUNDARY
- DRAINAGE BOUNDARY
- INITIAL SUBAREA
- FLOW DIRECTION
- XX.XX ACRES — AREA
- X — HYDROLOGIC SOIL TYPE
- XXX — NODE NUMBER
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA





PREPARED BY:

HUNSAKER & ASSOCIATES SAN DIEGO, INC

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HMP EXISITNG PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 3087-0010

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LEGEND

- PROJECT BOUNDARY
- DMA BOUNDARY
- FLOW DIRECTION
- BYPASS STORM DRAIN
- STORM DRAIN
- ON-SITE STORM DRAIN INLETS
- 00.00 ACRES — SUBAREA ACREAGE
- DMA 1 — DMA ICON
- IMPERVIOUS - ROAD/SIDEWALK/ DRIVEWAY
- IMPERVIOUS - ROOF/BUILDING
- PERVIOUS - LANDSCAPE
- BIOFILTRATION BASIN
- B D — HYDROLOGIC SOIL TYPE
- X — POINT OF COMPLIANCE
- STRUCTURAL BMP
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA
- DECOMPOST GRANIET
- DISTURBED AREA BOUNDARY

UNDERLYING SOIL GROUP : B & D
APPROXIMATE DEPTH TO GROUNDWATER > 20'
NO CRITICAL COARSE AREAS REQUIRE PRESERVATION

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HMP PROPOSED
PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 3087-0010

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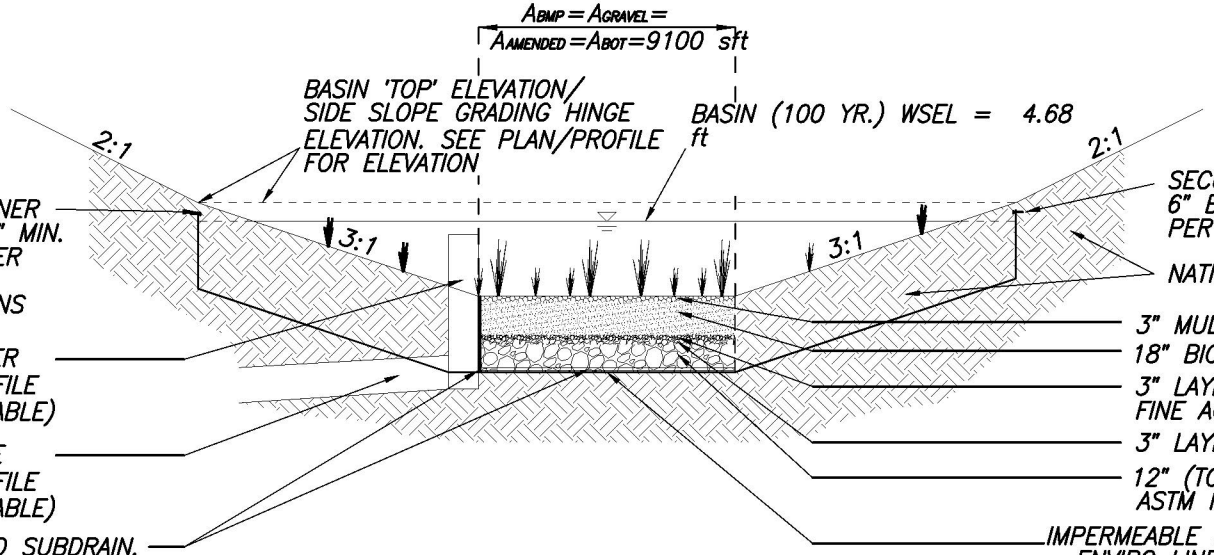
BIOFILTRATION BASIN CROSS SECTION



IMPERMEABLE LINER INSTALLED TO 6" MIN. ABOVE WSEL, PER GEOTECHNICAL RECOMMENDATIONS

DISCHARGE RISER PER PLAN/PROFILE (WHERE APPLCIABLE)

DISCHARGE PIPE PER PLAN/PROFILE (WHERE APPLICABLE)

6" PERFORATED SUBDRAIN, ELEVATED 3" ABOVE LINER/GRAVEL INVERT, RUN ALONG BASIN LENGTH AND LUG CONNECTION TO RISER OUTLET STRUCTURE (SEE PLAN FOR TYPICAL LAYOUT)

SECURE LINER WITH NAILS @ 5' O.C., 6" BELOW BASIN 'TOP' ELEVATION, PER MANUFACTURER RECOMMENDATIONS.

NATIVE SOIL/COMPACTED FILL

3" MULCH

18" BIOFILTRATION SOIL MEDIA LAYER*

3" LAYER OF CLEAN AND WASHED ASTM NO. 33 FINE AGGREGATE SAND

3" LAYER OF ASTM NO. 8 STONE

12" (TOTAL, 3" BELOW SUBDRAIN) MIN. LAYER ASTM NO. 57 OPEN GRADED STONE

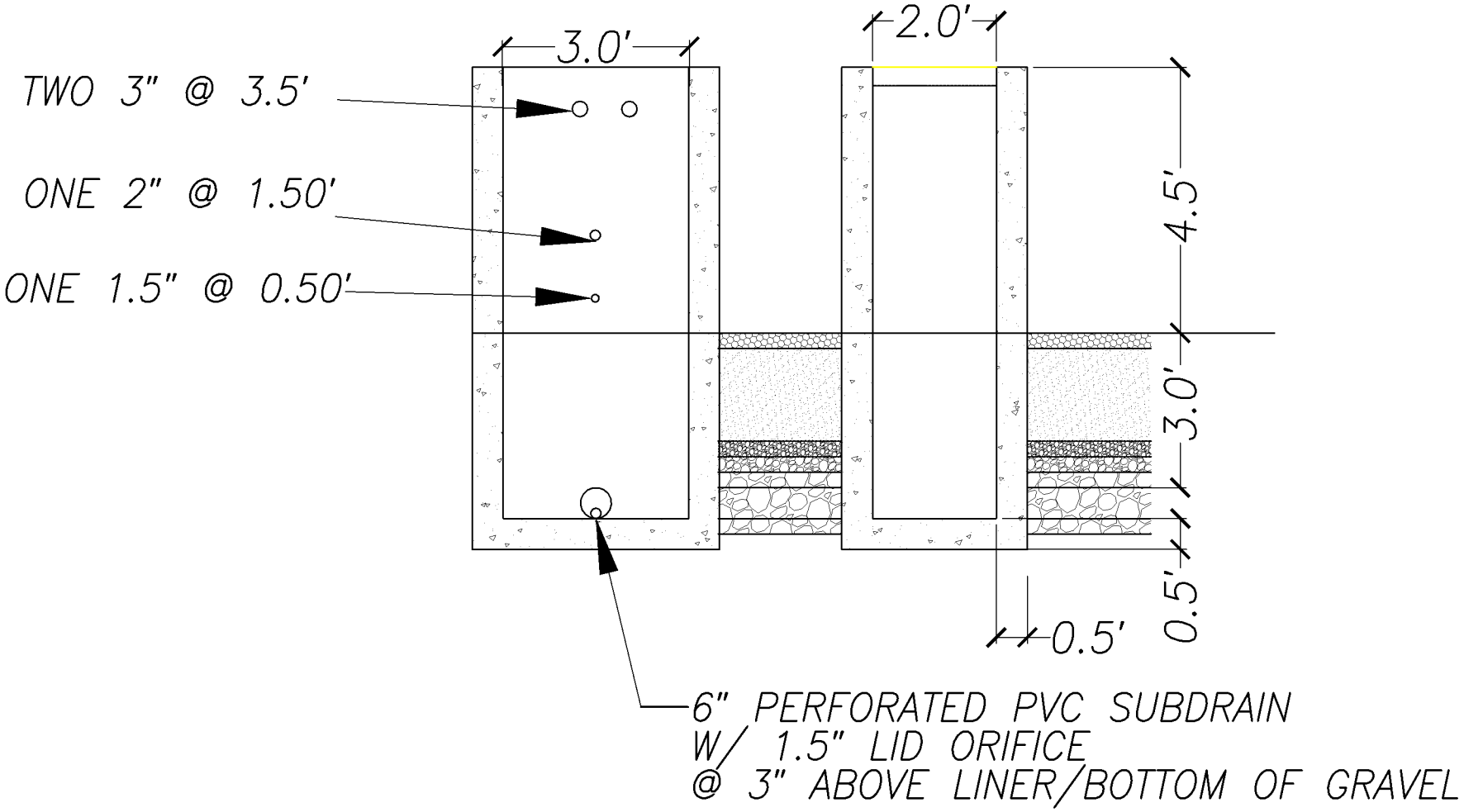
IMPERMEABLE LINER;
- ENVIRO LINER EL 1030, OR EQUIVALENT
- INSTALL AT INTERFACE BETWEEN GRAVEL/NATIVE AND RUN UP NATIVE SIDESLOPES TO HIGH WATER ELEVATION.
- TIE TO STRUCTURES PER MANUFACTURER RECOMMENDATIONS, WHERE APPLICABLE.
- WATERPROOF ALL AREAS LINER IS PENETRATED, WHERE APPLICABLE.

BIORETENTION SOIL MEDIA (BSM):
- 18" MINIMUM THICKNESS.
- 70% TO 85% BY VOLUME WASHED SAND AND 15% TO 30% BY VOLUME COMPOST OR ALTERNATIVE ORGANIC AMENDMENT.
- BSM: THE C:N RATIO OF BSM SHALL BE BETWEEN 15 AND 40 TO REDUCE THE POTENTIAL FOR NITRATE LEACHING.
- MUST MAINTAIN A MINIMUM PERCOLATION RATE OF 5 INCHES PER HOUR THROUGHOUT THE LIFE OF THE FACILITY, AND IT MUST BE SUITABLE FOR MAINTAINING PLANT LIFE.
- FOR ADDITIONAL INFORMATION REFER TO APPENDIX F.3 OF THE CITY OF SAN DIEGO STORM WATER STANDARDS MANUAL.

BIOFILTRATION PLANTING NOTE:
- ALL PLANTING IN 'BIOFILTRATION' AREAS SHALL CONFORM TO APPENDIX 'E' OF THE CITY OF SAN DIEGO LOW IMPACT DESIGN MANUAL.

SOIL SECTION FOR WATER QUALITY/HYDROMODIFICATION BIOFILTRATION BASIN

NOT TO SCALE



PRIVATE BIOFILTRATION BASIN BF-1-1

RISER DETAIL

Placeholder – **WMAA Exhibit**

Replace placeholder with required exhibit.

PACIFICA SITE
CCSYA WMAA MAP
Legend
4991 Macario Dr
CCSYA
Vandegrift Blvd
Bonsall West
Arthur Ave
E Parker St
Douglas Dr
Stephane Pl
Claire Dr
Cardiff Bay Dr
Gold Dr
4991 Macario Dr
Reynolds Elementary School
Del Rio Elementary School
Popeyes Louisiana Kitchen
Marblehead Bay Dr
Roa Dr
N River Rd
Lustrosos St
Libby Elementary School
Luna Dr
Google Earth
© 2022 Google
N
2000 ft

Placeholder – **6.2.1 Verification of GLUs Onsite** (if applicable)

Replace placeholder with required calculations/documentation.

Leave placeholder intact if not applicable.

☐Not Applicable

NOT APPLICABLE

Downstream Systems Sensitivity to Course Sediment		Form I-10	
When it has been determined that potential critical coarse sediment yield areas exist within the project site, the next step is to determine whether downstream systems would be sensitive to reduction of coarse sediment yield from the project site. Use this form to document the evaluation of downstream systems requirements for preservation of coarse sediment supply.			
Project Name:			
Project Tracking Number / Permit Application Number:			
1	Will the project discharge runoff to a hardened MS4 system (pipe or lined channel) or an un-lined channel?	☐ Hardened MS4 system	Go to 2
		☐ Un-lined channel	Go to 4
2	Will the hardened MS4 system convey sediment (e.g., a concrete-lined channel with steep slope and cleansing velocity) or sink sediment (e.g., flat slopes, constrictions, treatment BMPs, or ponds with restricted outlets within the system will trap sediment and not allow conveyance of coarse sediment from the project site to an un-lined system).	☐ Convey	Go to 3
		☐ Sink	Go to 7
3	What kind of receiving water will the hardened MS4 system convey the sediment to?	☐ Un-lined channel	Go to 4
		☐ Lake ☐ Reservoir ☐ Bay	Go to 7
		☐ Lagoon ☐ Ocean	Go to 6
4	Is the un-lined channel impacted by deposition of sediment? This condition must be documented by the local agency.	☐ Yes	Go to 7
		☐ No	Go to 5

NOT APPLICABLE

Form I-10 Page 2 of 2	
5	End – Preserve coarse sediment supply to protect un-lined channels from accelerated erosion due to reduction of coarse sediment yield from the project site unless further investigation determines the sediment is not critical to the receiving stream. Sediment that is critical to receiving streams is the sediment that is a significant source of bed material to the receiving stream (bed sediment supply) (see Section 6.2.3 and Appendix H.2 of the manual).
6	End – Provide management measures for preservation of coarse sediment supply (protect beach sand supply).
7	End – Downstream system does not warrant preservation of coarse sediment supply, no measures for protection of critical coarse sediment yield areas onsite are necessary. Use the space below to describe the basis for this finding for the project.

NOT APPLICABLE

Placeholder – **6.2.3 Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite** (Optional)

Replace placeholder with required calculations/documentation.

Leave placeholder intact if not applicable.

Not Applicable

NOT APPLICABLE

Placeholder – **6.3.4 Geomorphic Assessment of Receiving Channels** (Optional)

Replace placeholder with required calculations/documentation.

Leave placeholder intact if not applicable.

Not Applicable

NOT APPLICABLE

Placeholder - **Flow Control Facility Design and Structural BMP Drawdown Calculations**

Replace placeholder with required calculations/documentation.

See Chapter 6 and Appendix G of the BMP Design Manual

INTRODUCTION

This report provides results for hydromodification management for Pacifica Site "the project" in the City of Oceanside, CA. Most of the developed area of the project drains to one biofiltration basin southwest of the site, while a small portion (0.8 ac) east of the site drains northerly away from the biofiltration basin towards Macario Dr. The flow will be captured via proposed proprietary biofiltration flow-based BMP "BF-3-2" (Filterra Unit or equivalent), to address water quality requirements before entering the bypassed storm drain system that will convey the flow to POC1 southwest of the project, where it commingles with the biofiltration basin discharge.

Environmental Protection Agency (EPA) Storm Water Management Model 5.1 (SWMM) has been used for hydromodification analysis. SWMM models were prepared for the pre and post developed conditions at the POC in order to determine if the proposed biofiltration facility has sufficient footprint to meet the current Hydromodification Management Plan (HMP) requirements from the Regional Water Quality Control Board (RWQCB).

The table below provides reports tributary area in both pre and post development conditions, demonstrating that all areas are analyzed in the various section discussed above.

	To POC 1 (AC)
Pre developed Area	15.67
Proposed Area	15.67

See the pre-developed and Proposed Hydromodification Exhibits depicting these areas.

POC1 Watershed Parameters

Pre developed Conditions

DMA1-EX-SoilB			DMA1-EX-Soil D			DMA2-EX-Soil D-offsite		
L=	737	ft	L=	1179	ft	L=	246	ft
A=	4.464	ac	A=	10.55	ac	A=	0.66	ac
% Impervious	52.6%	0% used	% Impervious	22.0%	0% used	% Impervious	55.2%	
W=	264	ft	W=	390	ft	W=	117	ft
US Elev=	109	ft	US Elev=	133	ft	US Elev=	131	ft
DS Elev=	97	ft	DS Elev=	68	ft	DS Elev=	125	ft
S=	1.67%		S=	5.52%		S=	2.52%	

Proposed Conditions

DMA1-SoilB (via Basin)-PR			DMA1-SoilD (via Basin)-PR			DMA1-EX-Soil D-offsite-(via Basin)		
L=	100	ft	L=	100	ft	L=	100	ft
A=	3.945	ac	A=	5.600	ac	A=	0.66	ac
% Impervious	70.52%		% Impervious	66.97%		% Impervious	55.2%	
W=	1718	ft	W=	2439	ft	W=	287	ft
US Elev=	103	ft	US Elev=	104	ft	US Elev=	131	ft
DS Elev=	95	ft	DS Elev=	97	ft	DS Elev=	125	ft
S=	1.00%		S=	1.00%		S=	6.20%	

BF-1-1		
L=	193	ft
A=	0.209	ac
W=	47	
US Elev=	88.01	ft
DS Elev=	88.00	ft
S=	0.005%	

DMA 2(Non-Basin)-SOILB			DMA 2(Non-Basin)-SOILD		
L=	100	ft	L=	100	ft
A=	0.310	ac	A=	0.490	ac
% Impervious	79.78%		% Impervious	79.78%	
W=	135	ft	W=	213	ft
US Elev=	103	ft	US Elev=	102.95	ft
DS Elev=	102.20	ft	DS Elev=	101.95	ft
S=	1.00%		S=	1.00%	

BYPASS (NON-BASIN)-D					
L=	1614	ft			
A=	4.46	ac			
% Impervious	0.000%				
W=	120	ft			
US Elev=	133	ft			
DS Elev=	68	ft			
S=	4.03%				

SWMM MODEL DEVELOPMENT

Two (2) SWMM models were prepared for this study, one for the point of compliance (POC) in pre-developed condition and one for the POC in the proposed condition. For all SWMM models, flow duration curves were prepared to determine if the proposed biofiltration footprint was sufficient to meet the current HMP requirements.

The inputs required to develop SWMM models include rainfall, watershed characteristics, and BMP configurations. The Oceanside Gage from the Project Clean Water website was used for this study, since it is the closest rain gage.

Evaporation for the site was modeled using average monthly values from the County hourly dataset. The site was modeled with hydrologic soil groups B and D soils as determined from the USGS Survey web-based Soil Survey Map. Other SWMM inputs for the subareas are discussed in the appendix to this document where the selection of the parameters is explained in detail.

BIORETENTION MODELING

Developed storm water runoff from the project site is routed through one (1) biofiltration basin located within the main project boundary. Flows from the proposed residences drain to the aforementioned biofiltration area via storm drain and overland flow, ultimately leaving the site through a southerly draining natural channel.

Basin Discussion:

Flow control in the basin is achieved by using a subdrain with an orifice for flow control, in addition to a spillway near the top of the basin. The design information is presented in the Basin Table below. Sizing and further peak flow discussion will be in the "Drainage Report for Pacifica Site".

Basin Table

	BF-1-1
Riser/Spillway Height (ft)*	4.50
Spillway Width (ft)	10
Basin Depth (ft)	6
Amended Soil Depth (in)+3in Mulch+ sand filter layer	24
Class 2 Perm. Depth (in)+stone filter layer	12
Biofiltration bottom Area (sf)	9,100
Sub-Drain Orifice	
No. of Orifices	1
Diameter (in)	1.5

*From finish grade.

FLOW DURATION CURVE COMPARISON

The Flow Duration Curves (FDC) for the site were compared at the POC by exporting the hourly runoff time series results from SWMM to a spreadsheet. FDC was compared between 10% of the pre-developed condition Q_2 up to the pre-developed condition Q_{10}. The Q_2 and Q_{10} were determined using a partial duration statistical analysis of the runoff time series in an Excel spreadsheet using the Cunnane plotting position method (which is the preferred plotting methodology in the HMP Permit). As the SWMM Model is a statistical analysis based on the Weibull Plotting Position Method, the Weibull Method was also used within the spreadsheet to ensure that the results were similar to those obtained by the SWMM Model.

The range between 10% of Q_2 and Q_{10} was divided into 100 equal time intervals; the number of hours that each flow rate was exceeded was counted from the hourly series. Additionally, the intermediate peaks with a return period "i" were obtained (Q_i with i=3 to 9). For the purpose of the plot, the values were presented as percentage of time exceeded for each flow rate.

FDC comparisons at the POC are illustrated in Figure 1 in logarithmic scale. Attachment 7 provides a detailed drainage exhibit for the post-developed condition.

As can be seen in Figure 1, the FDC's for the proposed condition with the biofiltration basin is within 110% of the curve for the pre-developed condition. The additional runoff volume generated from developing the site will be released downstream at a flow rate below the 10% Q_2 lower threshold. Additionally, the project will also not increase peak flow rates between the 10% Q_2 and the Q_{10}, as shown in the graphic and also in the attached table.

SUMMARY

This study has demonstrated that the proposed biofiltration footprint at the Pacifica Site project is sufficient to meet the current HMP criteria if the biofiltration cross-section area and volume recommended within this memo are incorporated within the proposed project site.

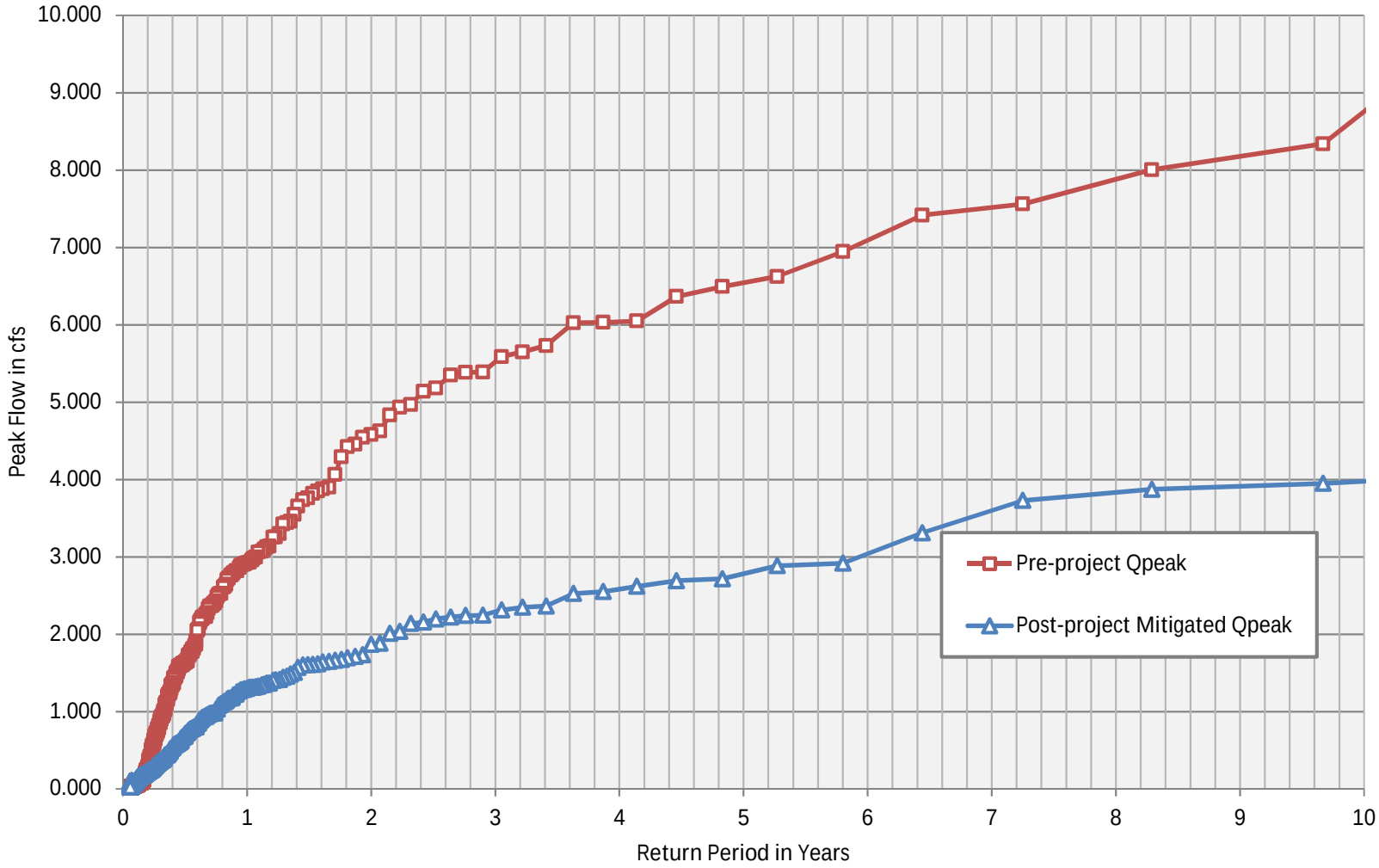
ATTACHMENTS

1. Q_2 to Q_{10} Comparison Table
2. FDC Plot (log "x" scale) and Flow Duration Table.
3. List of Peak Events and Determination of Q2 & Q10
4. Elevation vs. Area Curves and Elevations vs. Discharge Curves to be used in SWMM
5. Biofiltration Detail
6. SWMM Input Data in Input Format (Pre-developed and Proposed Models)
7. SWMM Screens and Explanation of Significant Variables
8. Drying time of the Surface Layer of Bio-retention cell
9. Hydromodification Watershed Maps
10. USGS Soil Map for justification of Soil Type Conditions

Peak Flow Frequency Summary

Return Period	Pre-project Qpeak (cfs)	Post-project - Mitigated Q (cfs)
LF = 0.1xQ2	0.458	0.187
2-year	4.581	1.869
5-year	6.545	2.783
10-year	8.757	3.979

POC 1
Peak Flow Frequency Curves



ATTACHMENT 2 - Flow Duration Curve Analysis, Plot & Table

Flow duration curve shall not exceed the pre-develop conditions by more than 10% neither in peak flow nor duration.

The figure on the following page illustrates that the flow duration curve in post-development conditions after the proposed BMPs is below the pre-developed flow duration curve. The flow duration curve table following the curve shows that if the interval 0.10Q 2 – Q 10 is divided in 100 sub-intervals, then a) the post development divided by pre-development durations are never larger than 110% (the permit allows up to 110%); and b) there are no more than 10 intervals in the range 101%-110% which would imply an excess over 10% of the length of the curve (the permit allows less than 10% of excesses measured as 101-110%).

Consequently, the design passes the hydromodification test.

It is important to note that the flow duration curve can be expressed in the "x" axis as percentage of time, hours per year, total number of hours, or any other similar time variable. As those variables only differ by a multiplying constant, their plot in logarithmic scale is going to look exactly the same and compliance can be observed regardless of the variable selected. The selection of a logarithmic scale in lieu of the normal scale is preferred, as differences between the pre-development and post-development curves can be seen more clearly in the entire range of analysis. Log graphics is presented for reference.

In terms of the "y" axis, the peak flow value is the variable of choice. As an additional analysis performed by H&A, not only the range of analysis is clearly depicted (10% of Q 2 to Q 10) but also all intermediate flows are shown (30% of Q 2 , 50% of Q 2 , Q 2 , Q 3 , Q 4 , Q 5 , Q 6 , Q 7 , Q 8 and Q 9) in order to demonstrate compliance at any range Q x – Q x+1 . It must be pointed out that one of the limitations of both the SWMM and SDHM models is that the intermediate analysis is not performed (to obtain Q i from i = 2 to 10). H&A performed the analysis using the Cunnane Plotting position Method (the preferred method in the HMP permit) from the "n" largest independent peak flows obtained from the continuous time series.

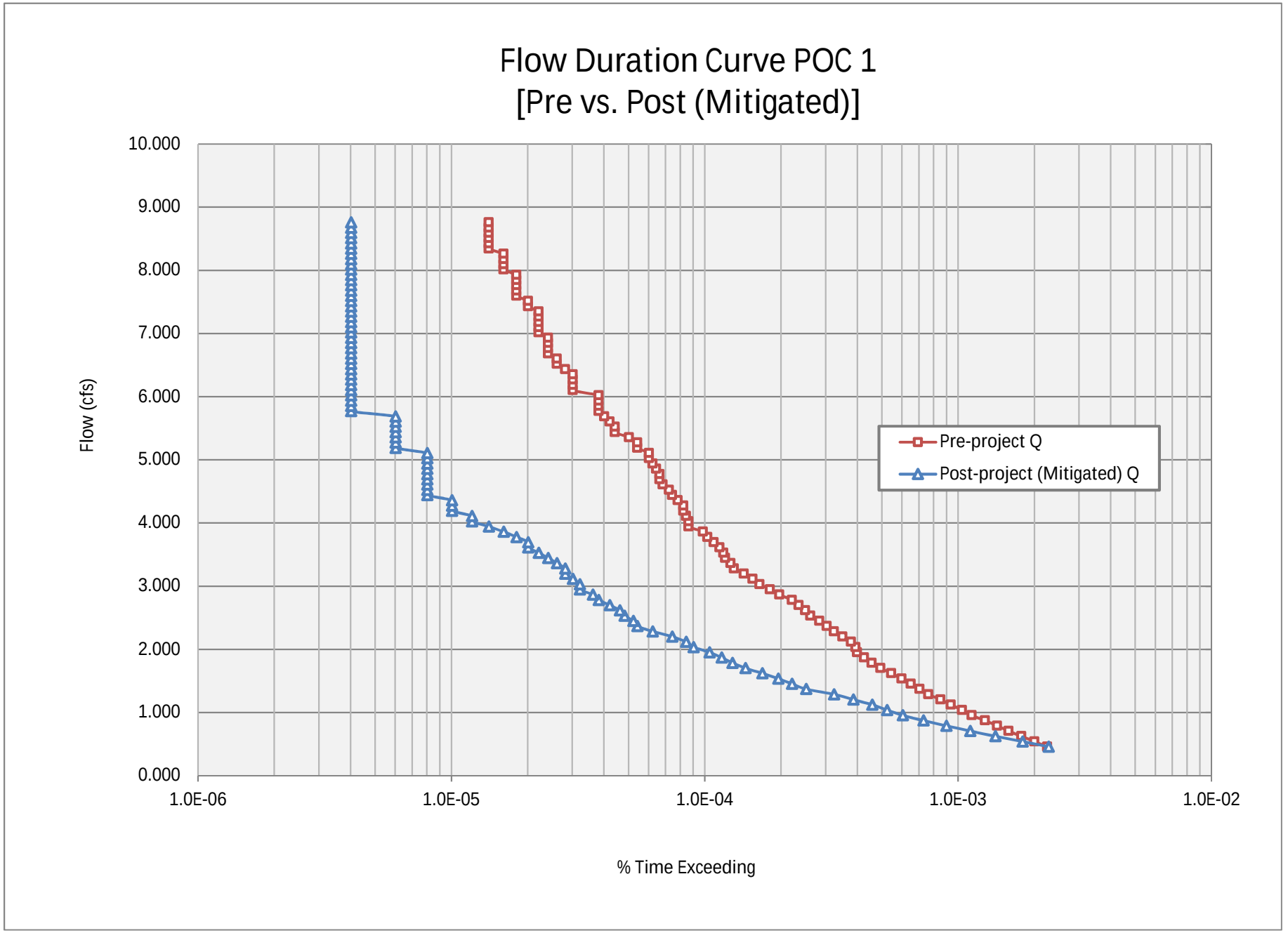
The largest "n" peak flows are attached in this appendix, as well as the values of Q_i with a return period "i", from i=2 to 10. The Q i values are also added into the flow-duration plot.

Low-flow Threshold:	10%	
0.1xQ2 (Pre):	0.458	cfs
Q10 (Pre):	8.757	cfs
Ordinate #:	100	
Incremental Q (Pre):	0.08299	cfs
Total Hourly Data:	497375	hours

POC1
The proposed BMP: PASSED

Interval	Pre-project Flow (cfs)	Pre-project Hours	Pre-project % Time Exceeding	Post-project Hours	Post-project % Time Exceeding	Percentage	Pass/Fail
0	0.458	1120	2.25E-03	1132	2.28E-03	101%	Pass
1	0.541	997	2.00E-03	894	1.80E-03	90%	Pass
2	0.624	885	1.78E-03	698	1.40E-03	79%	Pass
3	0.707	787	1.58E-03	556	1.12E-03	71%	Pass
4	0.790	710	1.43E-03	447	8.99E-04	63%	Pass
5	0.873	635	1.28E-03	363	7.30E-04	57%	Pass
6	0.956	563	1.13E-03	301	6.05E-04	53%	Pass
7	1.039	516	1.04E-03	261	5.25E-04	51%	Pass
8	1.122	466	9.37E-04	228	4.58E-04	49%	Pass
9	1.205	424	8.52E-04	192	3.86E-04	45%	Pass
10	1.288	380	7.64E-04	161	3.24E-04	42%	Pass
11	1.371	351	7.06E-04	125	2.51E-04	36%	Pass
12	1.454	324	6.51E-04	110	2.21E-04	34%	Pass
13	1.537	298	5.99E-04	97	1.95E-04	33%	Pass
14	1.620	271	5.45E-04	84	1.69E-04	31%	Pass
15	1.703	246	4.95E-04	72	1.45E-04	29%	Pass
16	1.786	227	4.56E-04	64	1.29E-04	28%	Pass
17	1.869	212	4.26E-04	58	1.17E-04	27%	Pass
18	1.952	199	4.00E-04	52	1.05E-04	26%	Pass
19	2.035	196	3.94E-04	45	9.05E-05	23%	Pass
20	2.118	188	3.78E-04	42	8.44E-05	22%	Pass
21	2.201	174	3.50E-04	37	7.44E-05	21%	Pass
22	2.284	161	3.24E-04	31	6.23E-05	19%	Pass
23	2.367	151	3.04E-04	27	5.43E-05	18%	Pass
24	2.450	141	2.83E-04	26	5.23E-05	18%	Pass
25	2.533	130	2.61E-04	24	4.83E-05	18%	Pass
26	2.616	124	2.49E-04	23	4.62E-05	19%	Pass
27	2.699	117	2.35E-04	21	4.22E-05	18%	Pass
28	2.782	110	2.21E-04	19	3.82E-05	17%	Pass
29	2.865	98	1.97E-04	18	3.62E-05	18%	Pass
30	2.948	90	1.81E-04	16	3.22E-05	18%	Pass
31	3.031	82	1.65E-04	16	3.22E-05	20%	Pass
32	3.114	77	1.55E-04	15	3.02E-05	19%	Pass
33	3.197	71	1.43E-04	14	2.81E-05	20%	Pass
34	3.280	65	1.31E-04	14	2.81E-05	22%	Pass
35	3.363	63	1.27E-04	13	2.61E-05	21%	Pass
36	3.446	60	1.21E-04	12	2.41E-05	20%	Pass
37	3.529	59	1.19E-04	11	2.21E-05	19%	Pass
38	3.612	57	1.15E-04	10	2.01E-05	18%	Pass
39	3.695	54	1.09E-04	10	2.01E-05	19%	Pass
40	3.778	51	1.03E-04	9	1.81E-05	18%	Pass
41	3.861	49	9.85E-05	8	1.61E-05	16%	Pass
42	3.944	43	8.65E-05	7	1.41E-05	16%	Pass
43	4.027	43	8.65E-05	6	1.21E-05	14%	Pass
44	4.109	42	8.44E-05	6	1.21E-05	14%	Pass
45	4.192	41	8.24E-05	5	1.01E-05	12%	Pass
46	4.275	41	8.24E-05	5	1.01E-05	12%	Pass
47	4.358	39	7.84E-05	5	1.01E-05	13%	Pass
48	4.441	37	7.44E-05	4	8.04E-06	11%	Pass
49	4.524	36	7.24E-05	4	8.04E-06	11%	Pass

Interval	Pre-project Flow (cfs)	Pre-project Hours	Pre-project % Time Exceeding	Post-project Hours	Post-project % Time Exceeding	Percentage	Pass/Fail
50	4.607	34	6.84E-05	4	8.04E-06	12%	Pass
51	4.690	33	6.63E-05	4	8.04E-06	12%	Pass
52	4.773	33	6.63E-05	4	8.04E-06	12%	Pass
53	4.856	32	6.43E-05	4	8.04E-06	13%	Pass
54	4.939	31	6.23E-05	4	8.04E-06	13%	Pass
55	5.022	30	6.03E-05	4	8.04E-06	13%	Pass
56	5.105	30	6.03E-05	4	8.04E-06	13%	Pass
57	5.188	27	5.43E-05	3	6.03E-06	11%	Pass
58	5.271	27	5.43E-05	3	6.03E-06	11%	Pass
59	5.354	25	5.03E-05	3	6.03E-06	12%	Pass
60	5.437	22	4.42E-05	3	6.03E-06	14%	Pass
61	5.520	22	4.42E-05	3	6.03E-06	14%	Pass
62	5.603	21	4.22E-05	3	6.03E-06	14%	Pass
63	5.686	20	4.02E-05	3	6.03E-06	15%	Pass
64	5.769	19	3.82E-05	2	4.02E-06	11%	Pass
65	5.852	19	3.82E-05	2	4.02E-06	11%	Pass
66	5.935	19	3.82E-05	2	4.02E-06	11%	Pass
67	6.018	19	3.82E-05	2	4.02E-06	11%	Pass
68	6.101	15	3.02E-05	2	4.02E-06	13%	Pass
69	6.184	15	3.02E-05	2	4.02E-06	13%	Pass
70	6.267	15	3.02E-05	2	4.02E-06	13%	Pass
71	6.350	15	3.02E-05	2	4.02E-06	13%	Pass
72	6.433	14	2.81E-05	2	4.02E-06	14%	Pass
73	6.516	13	2.61E-05	2	4.02E-06	15%	Pass
74	6.599	13	2.61E-05	2	4.02E-06	15%	Pass
75	6.682	12	2.41E-05	2	4.02E-06	17%	Pass
76	6.765	12	2.41E-05	2	4.02E-06	17%	Pass
77	6.848	12	2.41E-05	2	4.02E-06	17%	Pass
78	6.931	12	2.41E-05	2	4.02E-06	17%	Pass
79	7.014	11	2.21E-05	2	4.02E-06	18%	Pass
80	7.097	11	2.21E-05	2	4.02E-06	18%	Pass
81	7.180	11	2.21E-05	2	4.02E-06	18%	Pass
82	7.263	11	2.21E-05	2	4.02E-06	18%	Pass
83	7.346	11	2.21E-05	2	4.02E-06	18%	Pass
84	7.429	10	2.01E-05	2	4.02E-06	20%	Pass
85	7.512	10	2.01E-05	2	4.02E-06	20%	Pass
86	7.595	9	1.81E-05	2	4.02E-06	22%	Pass
87	7.678	9	1.81E-05	2	4.02E-06	22%	Pass
88	7.761	9	1.81E-05	2	4.02E-06	22%	Pass
89	7.844	9	1.81E-05	2	4.02E-06	22%	Pass
90	7.927	9	1.81E-05	2	4.02E-06	22%	Pass
91	8.010	8	1.61E-05	2	4.02E-06	25%	Pass
92	8.093	8	1.61E-05	2	4.02E-06	25%	Pass
93	8.176	8	1.61E-05	2	4.02E-06	25%	Pass
94	8.259	8	1.61E-05	2	4.02E-06	25%	Pass
95	8.342	7	1.41E-05	2	4.02E-06	29%	Pass
96	8.425	7	1.41E-05	2	4.02E-06	29%	Pass
97	8.508	7	1.41E-05	2	4.02E-06	29%	Pass
98	8.591	7	1.41E-05	2	4.02E-06	29%	Pass
99	8.674	7	1.41E-05	2	4.02E-06	29%	Pass
100	8.757	7	1.41E-05	2	4.02E-06	29%	Pass


Flow Duration Curve POC 1
[Pre vs. Post (Mitigated)]
10.000
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
Flow (cfs)
1.0E-06
1.0E-05
1.0E-04
1.0E-03
1.0E-02
% Time Exceeding
Pre-project Q
Post-project (Mitigated) Q

ATTACHMENT 3 - List of Peak Events and Determination of Q2 & Q10

Pre-project Flow Frequency - Long-term Simulation

PRE-DEVELOPED

Statistics - Node POC1 Total Inflow

Rank	Start Date	Event Duration (hours)	Event Peak (CFS)	Exceedance Frequency (percent)	Return Period (years)
1	4/14/2003	15	14.066	0.12	58
2	1/4/1995	13	13.128	0.25	29
3	1/14/1979	33	12.595	0.37	19.33
4	9/29/1983	51	12.561	0.49	14.5
5	1/3/1978	73	10.782	0.61	11.6
6	2/25/2003	53	8.339	0.74	9.67
7	2/23/1969	48	8.006	0.86	8.29
8	2/3/1958	37	7.563	0.98	7.25
9	2/27/1978	142	7.419	1.11	6.44
10	2/13/1980	190	6.947	1.23	5.8
11	10/27/2004	33	6.625	1.35	5.27
12	1/16/1952	12	6.495	1.47	4.83
13	2/18/2005	29	6.366	1.6	4.46
14	2/5/1978	122	6.049	1.72	4.14
15	1/27/1980	67	6.032	1.84	3.87
16	9/23/1986	32	6.027	1.97	3.63
17	1/13/1993	13	5.732	2.09	3.41
18	1/16/1978	14	5.65	2.21	3.22
19	10/29/2000	27	5.589	2.33	3.05
20	11/22/1965	28	5.388	2.46	2.9
21	2/3/1998	11	5.387	2.58	2.76
22	3/17/1982	44	5.349	2.7	2.64
23	12/29/1991	15	5.184	2.83	2.52
24	2/22/1998	51	5.139	2.95	2.42
25	12/19/1970	21	4.969	3.07	2.32
26	4/1/1958	15	4.935	3.19	2.23
27	2/22/2008	12	4.834	3.32	2.15
28	2/14/1986	13	4.627	3.44	2.07
29	3/2/1980	22	4.581	3.56	2
30	2/16/1998	33	4.547	3.69	1.93
31	8/16/1977	34	4.457	3.81	1.87
32	1/5/1979	32	4.426	3.93	1.81
33	1/28/1983	14	4.294	4.05	1.76
34	3/7/1968	18	4.066	4.18	1.71
35	4/27/1960	10	3.901	4.3	1.66
36	11/14/1952	37	3.879	4.42	1.61
37	2/26/1983	164	3.852	4.55	1.57
38	1/14/1978	19	3.821	4.67	1.53
39	11/11/1985	29	3.762	4.79	1.49
40	1/16/1972	15	3.738	4.91	1.45
41	1/9/2005	55	3.656	5.04	1.41
42	1/27/2008	24	3.548	5.16	1.38
43	10/18/2004	58	3.461	5.28	1.35
44	1/5/2008	52	3.442	5.41	1.32
45	12/24/1988	8	3.425	5.53	1.29
46	1/20/1962	11	3.299	5.65	1.26
47	2/21/2005	54	3.256	5.77	1.23
48	12/1/1961	21	3.253	5.9	1.21
49	2/14/1998	9	3.139	6.02	1.18
50	9/18/1963	6	3.128	6.14	1.16
51	12/24/1971	20	3.099	6.27	1.14
52	1/9/1980	86	3.072	6.39	1.12
53	1/13/1957	9	3.063	6.51	1.09
54	1/15/1993	80	2.999	6.63	1.07
55	12/5/1966	14	2.981	6.76	1.05
56	2/27/1991	43	2.957	6.88	1.04
57	2/12/1992	23	2.931	7	1.02
58	2/26/2004	9	2.921	7.13	1
59	2/3/1994	17	2.907	7.25	0.98
60	3/15/1986	30	2.901	7.37	0.97
61	2/1/1960	9	2.892	7.49	0.95
62	3/16/1963	15	2.864	7.62	0.94
63	3/11/1995	26	2.821	7.74	0.92
64	1/3/2005	32	2.818	7.86	0.91
65	2/18/1993	42	2.796	7.99	0.89
66	1/12/1997	37	2.772	8.11	0.88
67	12/24/1983	73	2.761	8.23	0.87
68	2/7/1993	16	2.727	8.35	0.85
69	2/19/1958	10	2.707	8.48	0.84
70	1/12/1960	8	2.645	8.6	0.83
71	3/5/1995	23	2.622	8.72	0.82
72	3/19/1981	9	2.609	8.85	0.81
73	12/18/1967	23	2.529	8.97	0.79
74	1/18/1954	36	2.525	9.09	0.78
75	2/6/1969	11	2.515	9.21	0.77
76	1/24/1969	63	2.485	9.34	0.76
77	3/24/1994	7	2.431	9.46	0.75
78	11/17/1986	16	2.407	9.58	0.74
79	12/31/2004	5	2.399	9.71	0.73
80	4/8/1975	18	2.392	9.83	0.73
81	1/27/1983	9	2.37	9.95	0.72
82	11/21/1996	14	2.366	10.07	0.71
83	11/25/1988	7	2.365	10.2	0.7
84	2/11/2003	50	2.333	10.32	0.69
85	11/20/1963	32	2.277	10.44	0.68
86	11/30/2007	17	2.258	10.57	0.67

10-year Q:	8.757	cfs	(Adjust Column "I" to interpolate from Table)
5-year Q:	6.545	cfs	
2-year Q:	4.581	cfs	
Lower Flow Threshold:	10%		
0.1xQ2 (Pre):	0.458	cfs	

87	11/24/1983	8	2.228	10.69	0.67
88	1/28/1957	41	2.226	10.81	0.66
89	12/16/1987	24	2.226	10.93	0.65
90	2/13/2001	30	2.219	11.06	0.64
91	11/29/1985	11	2.199	11.18	0.64
92	12/22/1982	25	2.185	11.3	0.63
93	11/16/1965	11	2.161	11.43	0.62
94	3/25/1991	54	2.147	11.55	0.62
95	12/9/1965	24	2.07	11.67	0.61
96	12/20/1988	12	2.052	11.79	0.6
97	12/28/2004	28	2.046	11.92	0.6
98	2/17/1990	39	1.912	12.04	0.59
99	2/15/1992	24	1.873	12.16	0.59
100	12/25/1968	5	1.858	12.29	0.58
101	1/17/1952	14	1.82	12.41	0.57
102	1/26/2001	14	1.814	12.53	0.57
103	4/28/2005	2	1.809	12.65	0.56
104	1/15/1997	10	1.778	12.78	0.56
105	1/22/1967	12	1.773	12.9	0.55
106	2/11/1959	19	1.772	13.02	0.55
107	4/6/1958	25	1.742	13.14	0.54
108	10/11/1987	35	1.741	13.27	0.54
109	2/13/1954	12	1.73	13.39	0.53
110	2/22/2004	27	1.716	13.51	0.53
111	1/17/1988	19	1.673	13.64	0.52
112	3/20/1958	37	1.651	13.76	0.52
113	11/30/1952	6	1.647	13.88	0.51
114	1/7/2005	12	1.642	14	0.51
115	1/10/1995	52	1.634	14.13	0.5
116	1/7/1992	28	1.634	14.25	0.5
117	4/20/1983	32	1.633	14.37	0.5
118	12/28/1977	51	1.623	14.5	0.49
119	4/8/1965	34	1.621	14.62	0.49
120	4/19/1988	34	1.62	14.74	0.48
121	2/11/1978	62	1.615	14.86	0.48
122	1/11/2001	34	1.604	14.99	0.48
123	5/10/1957	6	1.599	15.11	0.47
124	11/22/1973	4	1.598	15.23	0.47
125	1/30/2007	2	1.597	15.36	0.46
126	3/15/1952	23	1.591	15.48	0.46
127	12/7/1992	11	1.587	15.6	0.46
128	3/20/1992	70	1.584	15.72	0.45
129	3/7/1952	27	1.564	15.85	0.45
130	2/7/1966	4	1.549	15.97	0.45
131	12/20/2002	26	1.528	16.09	0.44
132	1/6/1993	48	1.517	16.22	0.44
133	1/26/1956	16	1.511	16.34	0.44
134	2/25/2001	51	1.503	16.46	0.43
135	1/5/1977	43	1.492	16.58	0.43
136	9/5/1978	21	1.46	16.71	0.43
137	3/15/1958	20	1.452	16.83	0.42
138	3/13/1967	13	1.443	16.95	0.42
139	11/8/2002	5	1.438	17.08	0.42
140	1/2/1977	10	1.437	17.2	0.41
141	1/14/1960	17	1.422	17.32	0.41
142	12/24/1959	8	1.373	17.44	0.41
143	1/26/1999	4	1.369	17.57	0.41
144	11/16/1972	28	1.366	17.69	0.4
145	1/25/1997	14	1.358	17.81	0.4
146	3/15/2003	26	1.344	17.94	0.4
147	12/7/1982	6	1.343	18.06	0.39
148	1/5/1992	22	1.335	18.18	0.39
149	3/20/1991	28	1.332	18.3	0.39
150	12/2/1952	4	1.295	18.43	0.39
151	1/18/1955	6	1.26	18.55	0.38
152	2/13/1973	6	1.254	18.67	0.38
153	1/1/1982	29	1.247	18.8	0.38
154	11/7/1979	11	1.244	18.92	0.38
155	7/22/1976	5	1.225	19.04	0.37
156	3/24/1983	31	1.225	19.16	0.37
157	11/26/1981	54	1.225	19.29	0.37
158	2/6/1998	55	1.22	19.41	0.37
159	12/29/1951	17	1.204	19.53	0.36
160	2/28/1981	63	1.189	19.66	0.36
161	4/12/1956	23	1.157	19.78	0.36
162	1/9/1978	35	1.157	19.9	0.36
163	3/10/1986	23	1.154	20.02	0.36
164	11/24/1985	26	1.122	20.15	0.35
165	3/19/1991	6	1.114	20.27	0.35
166	1/16/1990	8	1.108	20.39	0.35
167	1/7/1957	9	1.1	20.52	0.35
168	4/2/1958	16	1.096	20.64	0.35
169	12/11/1985	8	1.093	20.76	0.34
170	11/19/1967	21	1.086	20.88	0.34
171	12/26/1984	34	1.071	21.01	0.34
172	9/9/1976	31	1.03	21.13	0.34
173	10/13/2006	3	1.018	21.25	0.34
174	2/17/1994	5	1.011	21.38	0.33
175	2/8/1962	11	0.993	21.5	0.33
176	1/7/1995	22	0.981	21.62	0.33
177	12/9/2001	6	0.974	21.74	0.33
178	1/21/1964	28	0.97	21.87	0.33
179	11/30/1970	21	0.954	21.99	0.32
180	11/17/1964	5	0.951	22.11	0.32
181	1/25/1995	28	0.95	22.24	0.32

182	2/22/1969	10	0.947	22.36	0.32
183	11/30/1967	3	0.943	22.48	0.32
184	11/14/1972	4	0.936	22.6	0.32
185	3/7/1974	14	0.932	22.73	0.31
186	3/20/1973	5	0.923	22.85	0.31
187	3/5/2000	6	0.922	22.97	0.31
188	7/15/1976	7	0.915	23.1	0.31
189	1/29/1981	20	0.904	23.22	0.31
190	3/4/1970	7	0.898	23.34	0.31
191	2/11/2005	34	0.886	23.46	0.3
192	1/10/1955	10	0.875	23.59	0.3
193	4/11/1967	5	0.869	23.71	0.3
194	11/21/1967	3	0.862	23.83	0.3
195	1/29/1998	5	0.859	23.96	0.3
196	3/30/1978	39	0.851	24.08	0.3
197	3/10/2006	18	0.825	24.2	0.29
198	12/3/1966	15	0.808	24.32	0.29
199	1/25/1958	33	0.805	24.45	0.29
200	11/14/1988	4	0.792	24.57	0.29
201	3/5/1980	16	0.791	24.69	0.29
202	11/30/1993	2	0.79	24.82	0.29
203	2/28/1970	40	0.784	24.94	0.29
204	1/13/1952	12	0.782	25.06	0.28
205	4/4/2006	12	0.776	25.18	0.28
206	12/16/1965	9	0.77	25.31	0.28
207	2/29/1960	27	0.762	25.43	0.28
208	12/6/1966	6	0.761	25.55	0.28
209	1/5/1982	13	0.758	25.68	0.28
210	7/8/1976	7	0.742	25.8	0.28
211	3/8/1975	7	0.729	25.92	0.27
212	3/8/1973	5	0.724	26.04	0.27
213	4/20/1957	6	0.724	26.17	0.27
214	4/1/1982	9	0.72	26.29	0.27
215	2/28/1957	17	0.71	26.41	0.27
216	3/11/1978	20	0.709	26.54	0.27
217	3/24/1977	18	0.704	26.66	0.27
218	3/25/1980	6	0.698	26.78	0.27
219	11/24/1984	8	0.697	26.9	0.26
220	3/22/1954	29	0.693	27.03	0.26
221	1/18/1972	9	0.688	27.15	0.26
222	3/17/1979	7	0.678	27.27	0.26
223	10/14/1957	4	0.675	27.4	0.26
224	12/4/1974	5	0.673	27.52	0.26
225	2/6/1966	8	0.653	27.64	0.26
226	2/21/1959	9	0.651	27.76	0.26
227	11/26/1960	7	0.64	27.89	0.26
228	3/28/1993	3	0.634	28.01	0.25
229	2/5/1976	38	0.623	28.13	0.25
230	12/21/1970	2	0.613	28.26	0.25
231	1/30/1993	2	0.611	28.38	0.25
232	1/7/1974	17	0.611	28.5	0.25
233	4/3/1965	29	0.608	28.62	0.25
234	3/18/1979	58	0.596	28.75	0.25
235	2/9/1985	10	0.583	28.87	0.25
236	4/18/1995	3	0.577	28.99	0.25
237	11/23/1951	3	0.573	29.12	0.24
238	11/10/1954	14	0.564	29.24	0.24
239	5/12/1998	5	0.56	29.36	0.24
240	3/10/1975	15	0.557	29.48	0.24
241	12/11/1996	12	0.556	29.61	0.24
242	11/11/1983	32	0.555	29.73	0.24
243	3/11/1973	21	0.55	29.85	0.24
244	12/18/1984	46	0.54	29.98	0.24
245	3/7/1994	7	0.539	30.1	0.24
246	12/25/2003	20	0.524	30.22	0.24
247	3/5/1981	20	0.512	30.34	0.23
248	3/27/1979	32	0.489	30.47	0.23
249	2/18/1969	10	0.487	30.59	0.23
250	2/20/1969	3	0.474	30.71	0.23
251	2/20/2000	29	0.472	30.84	0.23
252	2/25/1987	3	0.465	30.96	0.23
253	2/25/1958	4	0.454	31.08	0.23
254	11/5/1960	16	0.451	31.2	0.23
255	2/7/1994	3	0.449	31.33	0.23
256	12/29/1965	2	0.427	31.45	0.23
257	2/9/1963	33	0.426	31.57	0.23
258	1/24/1967	6	0.423	31.7	0.22
259	2/27/1955	20	0.423	31.82	0.22
260	3/18/1962	12	0.418	31.94	0.22
261	2/8/1981	16	0.411	32.06	0.22
262	4/20/2007	3	0.411	32.19	0.22
263	1/9/1991	4	0.404	32.31	0.22
264	3/14/1982	12	0.4	32.43	0.22
265	11/7/1966	9	0.397	32.56	0.22
266	11/24/2001	4	0.397	32.68	0.22
267	1/9/1998	25	0.396	32.8	0.22
268	1/30/1966	14	0.393	32.92	0.22
269	1/20/1982	35	0.385	33.05	0.22
270	2/27/1996	3	0.377	33.17	0.21
271	12/4/1987	6	0.364	33.29	0.21
272	3/19/1994	30	0.362	33.42	0.21
273	11/12/1960	2	0.354	33.54	0.21
274	1/31/1956	4	0.353	33.66	0.21
275	5/7/1977	36	0.333	33.78	0.21
276	12/20/1952	5	0.332	33.91	0.21

277	4/12/1999	4	0.318	34.03	0.21
278	3/16/1954	1	0.313	34.15	0.21
279	3/16/1957	2	0.312	34.28	0.21
280	11/8/1998	2	0.31	34.4	0.21
281	2/16/1959	18	0.303	34.52	0.21
282	2/14/1995	7	0.295	34.64	0.21
283	12/16/1978	67	0.292	34.77	0.2
284	2/9/1982	26	0.285	34.89	0.2
285	1/30/1979	74	0.281	35.01	0.2
287	3/25/1998	26	0.28	35.26	0.2
287	3/31/1998	4	0.28	35.26	0.2
288	1/17/1980	32	0.278	35.38	0.2
289	12/7/1984	3	0.276	35.5	0.2
290	4/14/1971	2	0.273	35.63	0.2
291	2/15/1973	2	0.272	35.75	0.2
292	2/6/1965	22	0.267	35.87	0.2
293	3/1/1953	1	0.263	36	0.2
294	12/7/1980	4	0.262	36.12	0.2
295	3/1/1976	7	0.26	36.24	0.2
296	2/8/1976	13	0.257	36.36	0.2
297	9/17/1963	12	0.252	36.49	0.2
298	2/11/1973	9	0.251	36.61	0.19
299	2/28/2006	7	0.242	36.73	0.19
300	3/21/1969	9	0.238	36.86	0.19
301	4/10/1952	4	0.238	36.98	0.19
302	4/27/1953	4	0.237	37.1	0.19
303	2/20/1962	14	0.236	37.22	0.19
304	3/6/1983	16	0.235	37.35	0.19
305	12/25/1977	30	0.234	37.47	0.19
306	1/16/1970	5	0.231	37.59	0.19
307	12/15/1988	31	0.229	37.71	0.19
308	6/5/1993	1	0.228	37.84	0.19
309	2/10/1976	3	0.227	37.96	0.19
310	3/30/1954	1	0.225	38.08	0.19
311	3/6/1958	16	0.224	38.21	0.19
312	2/8/1983	1	0.22	38.33	0.19
313	1/23/1995	3	0.21	38.45	0.19
314	4/7/2001	1	0.209	38.57	0.18
315	2/26/1996	6	0.208	38.7	0.18
316	11/6/1969	15	0.201	38.82	0.18
317	12/14/1965	3	0.201	38.94	0.18
318	4/17/1963	4	0.192	39.07	0.18
319	3/31/1965	31	0.192	39.19	0.18
320	3/9/1978	2	0.192	39.31	0.18
321	4/4/1987	12	0.191	39.43	0.18
322	12/11/1951	6	0.19	39.56	0.18
323	12/9/1954	1	0.189	39.68	0.18
324	3/1/1979	11	0.186	39.8	0.18
325	3/24/1954	10	0.182	39.93	0.18
326	4/17/2000	15	0.18	40.05	0.18
327	4/30/1955	8	0.176	40.17	0.18
328	4/1/2004	2	0.172	40.29	0.18
329	4/5/1969	1	0.171	40.42	0.18
330	1/19/1978	7	0.166	40.54	0.18
331	3/10/1980	3	0.166	40.66	0.18
332	3/17/1983	48	0.165	40.79	0.17
333	1/24/1965	3	0.16	40.91	0.17
334	3/21/1983	42	0.16	41.03	0.17
335	12/30/1952	5	0.157	41.15	0.17
336	12/16/2002	1	0.148	41.28	0.17
337	4/18/1983	8	0.145	41.4	0.17
338	2/7/1973	1	0.145	41.52	0.17
339	4/15/1976	21	0.135	41.65	0.17
340	4/1/1968	1	0.134	41.77	0.17
341	1/24/1954	4	0.134	41.89	0.17
342	2/4/1999	3	0.13	42.01	0.17
343	4/29/1983	21	0.129	42.14	0.17
344	2/2/1988	17	0.127	42.26	0.17
345	1/31/1996	30	0.127	42.38	0.17
346	12/10/2006	1	0.122	42.51	0.17
347	12/6/1998	2	0.119	42.63	0.17
348	4/26/1963	1	0.116	42.75	0.17
349	12/6/1997	1	0.115	42.87	0.17
350	12/27/1971	23	0.114	43	0.17
351	2/9/1975	17	0.112	43.12	0.17
352	2/16/1971	14	0.111	43.24	0.16
353	4/11/1998	2	0.111	43.37	0.16
354	12/16/1957	17	0.111	43.49	0.16
355	1/28/1981	10	0.109	43.61	0.16
356	2/24/2008	1	0.109	43.73	0.16
357	10/17/1984	3	0.109	43.86	0.16
358	10/16/1980	3	0.108	43.98	0.16
359	4/14/1988	8	0.108	44.1	0.16
360	4/4/1990	6	0.108	44.23	0.16
361	8/24/1988	12	0.107	44.35	0.16
362	12/22/1988	2	0.107	44.47	0.16
363	9/24/1958	1	0.104	44.59	0.16
364	1/25/1960	1	0.102	44.72	0.16
365	2/2/2004	1	0.102	44.84	0.16
366	3/25/1993	2	0.101	44.96	0.16
367	12/16/1984	2	0.1	45.09	0.16
368	8/26/2007	2	0.1	45.21	0.16
369	12/9/1959	5	0.099	45.33	0.16
370	3/6/1962	15	0.097	45.45	0.16
371	2/19/1998	1	0.096	45.58	0.16

372	1/6/1959	1	0.095	45.7	0.16
373	3/6/2001	25	0.094	45.82	0.16
374	2/21/1996	15	0.093	45.95	0.16
375	2/21/1979	7	0.092	46.07	0.15
376	1/27/1994	1	0.091	46.19	0.15
377	11/23/1952	1	0.091	46.31	0.15
378	3/28/2006	2	0.086	46.44	0.15
379	10/30/1996	3	0.086	46.56	0.15
380	1/26/1961	5	0.086	46.68	0.15
381	4/16/1995	3	0.086	46.81	0.15
382	9/11/1960	4	0.086	46.93	0.15
383	4/26/1959	3	0.086	47.05	0.15
384	3/5/1973	1	0.084	47.17	0.15
385	1/6/1987	12	0.084	47.3	0.15
386	12/20/1959	10	0.084	47.42	0.15
387	1/25/1952	8	0.084	47.54	0.15
388	1/5/1957	3	0.084	47.67	0.15
389	3/27/1974	1	0.083	47.79	0.15
390	2/28/1973	7	0.08	47.91	0.15
391	1/28/1982	9	0.079	48.03	0.15
392	3/13/1986	9	0.079	48.16	0.15
393	1/26/1957	1	0.077	48.28	0.15
394	12/5/1957	2	0.076	48.4	0.15
395	2/29/1952	11	0.076	48.53	0.15
396	2/19/1962	2	0.076	48.65	0.15
397	2/13/2000	1	0.075	48.77	0.15
398	4/17/1975	1	0.075	48.89	0.15
399	8/28/1951	4	0.074	49.02	0.15
400	1/31/1986	5	0.074	49.14	0.14
401	1/21/1996	13	0.074	49.26	0.14
402	2/6/1992	30	0.073	49.39	0.14
403	4/19/1967	1	0.073	49.51	0.14
404	12/30/1981	22	0.073	49.63	0.14
405	12/17/1977	8	0.073	49.75	0.14
408	12/3/1983	7	0.073	50.12	0.14
408	12/30/1976	21	0.073	50.12	0.14
408	1/30/1986	11	0.073	50.12	0.14
412	12/9/1983	1	0.073	50.61	0.14
412	1/10/1982	10	0.073	50.61	0.14
412	1/24/1994	5	0.073	50.61	0.14
412	1/31/1990	2	0.073	50.61	0.14
413	11/9/1982	33	0.072	50.74	0.14
414	11/11/1972	2	0.072	50.86	0.14
415	11/21/1978	9	0.072	50.98	0.14
420	2/14/1979	3	0.072	51.6	0.14
420	2/25/1981	5	0.072	51.6	0.14
420	11/13/1984	1	0.072	51.6	0.14
420	2/23/1953	5	0.072	51.6	0.14
420	2/19/2006	1	0.072	51.6	0.14
421	3/22/1964	24	0.072	51.72	0.14
422	3/25/1989	21	0.072	51.84	0.14
423	3/2/1992	15	0.072	51.97	0.14
429	3/27/1992	1	0.072	52.7	0.14
429	10/21/1985	1	0.072	52.7	0.14
429	3/8/1986	9	0.072	52.7	0.14
429	10/9/1986	6	0.072	52.7	0.14
429	3/8/1992	10	0.072	52.7	0.14
429	10/26/1991	13	0.072	52.7	0.14
430	9/26/1982	15	0.071	52.83	0.13
431	4/22/1980	19	0.071	52.95	0.13
432	4/27/1984	2	0.071	53.07	0.13
433	5/24/1977	5	0.071	53.19	0.13
434	8/30/1976	4	0.071	53.32	0.13
435	2/23/1971	1	0.069	53.44	0.13
436	11/15/1963	3	0.069	53.56	0.13
437	10/31/1957	1	0.068	53.69	0.13
438	1/16/1995	1	0.068	53.81	0.13
439	12/9/1996	1	0.066	53.93	0.13
440	1/13/1962	1	0.065	54.05	0.13
441	2/17/1955	2	0.065	54.18	0.13
442	3/27/1958	2	0.064	54.3	0.13
443	10/15/1964	1	0.064	54.42	0.13
444	1/28/1969	19	0.064	54.55	0.13
445	4/21/1967	4	0.061	54.67	0.13
446	11/14/1965	8	0.061	54.79	0.13
447	10/10/1966	2	0.061	54.91	0.13
448	10/22/1953	1	0.061	55.04	0.13
449	4/22/1955	2	0.06	55.16	0.13
450	2/15/1962	18	0.06	55.28	0.13
451	12/2/1985	14	0.059	55.41	0.13
452	12/27/1992	5	0.058	55.53	0.13
453	1/12/1954	1	0.058	55.65	0.13
454	1/1/2006	16	0.058	55.77	0.13
455	12/1/1998	1	0.058	55.9	0.13
458	12/31/1964	1	0.058	56.27	0.13
458	12/27/2006	1	0.058	56.27	0.13
458	12/18/1992	1	0.058	56.27	0.13
459	11/20/1961	3	0.058	56.39	0.13
460	2/28/2007	1	0.058	56.51	0.13
461	2/11/2007	1	0.058	56.63	0.13
463	11/21/2004	1	0.057	56.88	0.13
463	11/30/2000	1	0.057	56.88	0.13
464	1/10/1993	3	0.057	57	0.13
465	3/25/1999	2	0.057	57.13	0.12
466	3/11/1955	2	0.057	57.25	0.12

467	3/2/2004	1	0.057	57.37	0.12
468	3/28/1963	1	0.057	57.49	0.12
469	3/3/1995	1	0.057	57.62	0.12
470	10/26/2000	26	0.057	57.74	0.12
473	3/21/2006	1	0.057	58.11	0.12
473	10/16/2005	35	0.057	58.11	0.12
473	10/17/2004	1	0.057	58.11	0.12
476	4/7/1965	1	0.056	58.48	0.12
476	9/20/2005	1	0.056	58.48	0.12
476	9/18/1999	1	0.056	58.48	0.12
477	5/22/2006	3	0.056	58.6	0.12
478	6/15/1995	1	0.056	58.72	0.12
479	12/27/1964	3	0.054	58.85	0.12
480	1/16/1955	8	0.054	58.97	0.12
481	11/27/1975	23	0.054	59.09	0.12
482	11/14/1955	3	0.054	59.21	0.12
483	11/26/1967	1	0.054	59.34	0.12
484	10/16/1971	6	0.053	59.46	0.12
485	3/12/1952	12	0.053	59.58	0.12
486	4/20/1953	1	0.053	59.71	0.12
487	5/11/1958	1	0.052	59.83	0.12
488	5/19/1974	1	0.052	59.95	0.12
489	6/10/1957	2	0.052	60.07	0.12
490	4/6/1986	11	0.051	60.2	0.12
491	12/28/1952	1	0.051	60.32	0.12
492	2/13/1968	3	0.05	60.44	0.12
493	11/14/1968	1	0.05	60.57	0.12
494	2/10/1970	24	0.05	60.69	0.12
495	3/2/1974	3	0.05	60.81	0.12
496	3/6/1973	1	0.05	60.93	0.12
497	4/18/1957	1	0.049	61.06	0.12
498	9/4/1963	4	0.049	61.18	0.12
499	4/22/1988	25	0.049	61.3	0.12
500	12/20/1975	1	0.047	61.43	0.12
501	1/12/1971	2	0.047	61.55	0.12
502	11/25/1961	4	0.047	61.67	0.12
503	2/24/1956	1	0.047	61.79	0.12
504	10/29/1974	7	0.046	61.92	0.12
505	3/13/1971	1	0.046	62.04	0.11
506	3/13/1960	1	0.046	62.16	0.11
507	4/4/1976	1	0.045	62.29	0.11
508	3/10/2001	1	0.044	62.41	0.11
509	12/4/1972	4	0.043	62.53	0.11
512	1/25/1999	1	0.043	62.9	0.11
512	12/5/2004	5	0.043	62.9	0.11
512	1/21/1995	1	0.043	62.9	0.11
513	12/27/1996	1	0.043	63.02	0.11
514	1/23/1997	15	0.043	63.14	0.11
515	12/22/1971	4	0.043	63.27	0.11
516	12/19/2007	1	0.043	63.39	0.11
517	12/7/2007	1	0.043	63.51	0.11
518	1/3/1995	1	0.043	63.64	0.11
519	1/12/1993	1	0.043	63.76	0.11
521	1/16/1996	1	0.043	64	0.11
521	12/11/1993	1	0.043	64	0.11
525	12/29/1992	1	0.043	64.5	0.11
525	1/20/1957	1	0.043	64.5	0.11
525	12/23/1995	1	0.043	64.5	0.11
525	1/31/1999	1	0.043	64.5	0.11
526	11/9/1964	2	0.043	64.62	0.11
527	2/23/1993	1	0.043	64.74	0.11
528	11/10/1994	1	0.043	64.86	0.11
529	11/3/1960	1	0.043	64.99	0.11
530	2/4/1976	1	0.043	65.11	0.11
531	2/22/2007	1	0.043	65.23	0.11
532	11/28/1998	1	0.043	65.36	0.11
533	3/22/2005	1	0.042	65.48	0.11
534	3/21/1995	1	0.042	65.6	0.11
535	3/13/1996	1	0.042	65.72	0.11
538	3/3/1976	1	0.042	66.09	0.11
538	10/8/1951	1	0.042	66.09	0.11
538	10/1/1996	1	0.042	66.09	0.11
539	4/17/2004	1	0.041	66.22	0.11
540	5/1/1995	1	0.041	66.34	0.11
542	6/3/1999	1	0.041	66.58	0.11
542	6/2/1999	1	0.041	66.58	0.11
544	1/25/1956	1	0.039	66.83	0.11
544	1/10/1960	4	0.039	66.83	0.11
545	1/14/1969	7	0.039	66.95	0.11
546	1/22/1962	12	0.039	67.08	0.11
547	1/10/1973	1	0.039	67.2	0.11
548	12/18/1997	1	0.039	67.32	0.11
549	1/1/1955	1	0.039	67.44	0.11
550	12/16/1970	1	0.039	67.57	0.11
551	12/28/1974	23	0.039	67.69	0.11
552	12/8/1969	1	0.039	67.81	0.11
553	2/8/1959	4	0.039	67.94	0.1
554	2/8/1960	2	0.039	68.06	0.1
555	2/14/1963	1	0.039	68.18	0.1
556	2/3/1975	7	0.039	68.3	0.1
557	2/11/2000	1	0.039	68.43	0.1
558	11/11/1958	1	0.039	68.55	0.1
559	3/13/1998	25	0.039	68.67	0.1
560	3/6/1965	1	0.038	68.8	0.1
561	2/10/1960	2	0.038	68.92	0.1

562	10/10/1951	1	0.038	69.04	0.1
563	1/3/1997	6	0.038	69.16	0.1
564	4/7/1952	1	0.038	69.29	0.1
565	2/6/1983	19	0.037	69.41	0.1
571	12/6/1986	23	0.036	70.15	0.1
571	12/29/1982	3	0.036	70.15	0.1
571	1/7/1985	17	0.036	70.15	0.1
571	12/28/1991	3	0.036	70.15	0.1
571	12/4/1980	23	0.036	70.15	0.1
571	1/5/1988	5	0.036	70.15	0.1
573	1/9/1979	4	0.036	70.39	0.1
573	1/28/1985	12	0.036	70.39	0.1
574	1/30/1978	13	0.036	70.52	0.1
575	1/13/1990	25	0.036	70.64	0.1
580	1/29/1977	2	0.036	71.25	0.1
580	12/21/1979	7	0.036	71.25	0.1
580	1/23/1989	2	0.036	71.25	0.1
580	1/7/1989	2	0.036	71.25	0.1
580	12/4/1971	2	0.036	71.25	0.1
581	12/19/1951	1	0.036	71.38	0.1
583	12/10/1984	11	0.036	71.62	0.1
583	12/18/1988	8	0.036	71.62	0.1
585	1/1/1974	3	0.036	71.87	0.1
585	12/3/1984	3	0.036	71.87	0.1
586	1/30/1955	9	0.036	71.99	0.1
587	1/17/1979	42	0.036	72.11	0.1
588	1/2/1990	4	0.036	72.24	0.1
589	12/4/1953	1	0.036	72.36	0.1
590	1/22/1983	23	0.036	72.48	0.1
591	12/27/1988	13	0.036	72.6	0.1
592	12/31/1965	1	0.036	72.73	0.1
593	12/3/1954	1	0.036	72.85	0.1
594	1/15/1984	16	0.036	72.97	0.1
595	12/12/1965	17	0.036	73.1	0.1
596	12/29/1987	18	0.036	73.22	0.1
597	2/2/1983	27	0.036	73.34	0.1
601	11/20/1983	13	0.036	73.83	0.1
601	11/29/1982	28	0.036	73.83	0.1
601	11/18/1982	9	0.036	73.83	0.1
601	2/7/1986	17	0.036	73.83	0.1
602	2/23/1983	24	0.036	73.96	0.1
603	2/4/1990	4	0.036	74.08	0.1
604	11/10/1964	1	0.036	74.2	0.1
605	11/14/1953	1	0.036	74.32	0.1
606	11/18/1973	13	0.036	74.45	0.1
607	2/20/2001	1	0.036	74.57	0.1
608	11/10/1969	1	0.036	74.69	0.1
616	11/12/1976	6	0.036	75.68	0.09
616	2/2/1989	3	0.036	75.68	0.09
616	11/24/1978	5	0.036	75.68	0.09
616	11/4/1987	17	0.036	75.68	0.09
616	2/3/1989	20	0.036	75.68	0.09
616	2/2/1985	10	0.036	75.68	0.09
616	2/13/1986	6	0.036	75.68	0.09
616	2/9/1989	15	0.036	75.68	0.09
617	2/23/1957	1	0.036	75.8	0.09
620	2/23/1979	4	0.036	76.17	0.09
620	2/22/1977	4	0.036	76.17	0.09
620	11/17/1973	4	0.036	76.17	0.09
621	11/10/1978	43	0.035	76.29	0.09
623	2/10/1992	6	0.035	76.54	0.09
623	11/23/1988	6	0.035	76.54	0.09
624	2/24/1977	9	0.035	76.66	0.09
625	1/3/1992	20	0.035	76.78	0.09
626	2/3/1973	1	0.035	76.9	0.09
660	12/12/1984	1	0.035	81.08	0.09
660	1/19/1966	1	0.035	81.08	0.09
660	1/28/1987	1	0.035	81.08	0.09
660	12/1/1973	1	0.035	81.08	0.09
660	1/2/1997	1	0.035	81.08	0.09
660	1/12/1981	1	0.035	81.08	0.09
660	1/3/1991	1	0.035	81.08	0.09
660	1/11/1981	1	0.035	81.08	0.09
660	1/4/1984	1	0.035	81.08	0.09
660	1/24/1983	23	0.035	81.08	0.09
660	1/18/1983	24	0.035	81.08	0.09
660	1/17/1983	1	0.035	81.08	0.09
660	1/5/1983	1	0.035	81.08	0.09
660	12/21/1981	1	0.035	81.08	0.09
660	12/19/1983	1	0.035	81.08	0.09
660	12/15/1983	1	0.035	81.08	0.09
660	12/23/1977	1	0.035	81.08	0.09
660	1/26/1977	1	0.035	81.08	0.09
660	1/5/1989	1	0.035	81.08	0.09
660	1/25/1979	1	0.035	81.08	0.09
660	12/25/1979	1	0.035	81.08	0.09
660	1/7/1980	1	0.035	81.08	0.09
660	1/14/1980	1	0.035	81.08	0.09
660	12/1/1989	1	0.035	81.08	0.09
660	1/22/1990	1	0.035	81.08	0.09
660	1/18/1990	1	0.035	81.08	0.09
660	12/9/1991	1	0.035	81.08	0.09
660	12/18/1991	1	0.035	81.08	0.09
660	12/19/1991	1	0.035	81.08	0.09
660	12/19/1987	1	0.035	81.08	0.09

660	12/20/1990	1	0.035	81.08	0.09
660	12/11/1987	1	0.035	81.08	0.09
660	1/9/1972	1	0.035	81.08	0.09
660	12/1/1978	1	0.035	81.08	0.09
663	10/20/1979	15	0.035	81.45	0.09
663	3/22/1987	3	0.035	81.45	0.09
663	3/31/1967	3	0.035	81.45	0.09
664	3/25/1982	9	0.035	81.57	0.09
665	10/21/1957	2	0.035	81.7	0.09
670	3/22/1975	2	0.035	82.31	0.09
670	3/15/1991	2	0.035	82.31	0.09
670	10/31/1987	19	0.035	82.31	0.09
670	3/16/1977	119	0.035	82.31	0.09
670	3/15/1987	2	0.035	82.31	0.09
671	3/11/1958	6	0.035	82.43	0.09
672	3/21/1980	14	0.035	82.56	0.09
673	3/27/1985	30	0.035	82.68	0.09
674	3/2/1989	10	0.035	82.8	0.09
675	3/12/1986	4	0.035	82.92	0.09
676	3/2/1964	1	0.035	83.05	0.09
677	3/5/1987	19	0.035	83.17	0.09
678	3/28/1982	7	0.035	83.29	0.09
680	3/24/1987	24	0.035	83.54	0.09
680	3/22/1978	24	0.035	83.54	0.09
707	2/5/1987	1	0.035	86.86	0.08
707	2/29/1988	1	0.035	86.86	0.08
707	11/17/1987	1	0.035	86.86	0.08
707	11/2/1987	1	0.035	86.86	0.08
707	11/14/1987	1	0.035	86.86	0.08
707	2/3/1987	1	0.035	86.86	0.08
707	11/20/1982	1	0.035	86.86	0.08
707	2/23/1986	1	0.035	86.86	0.08
707	2/17/1986	1	0.035	86.86	0.08
707	2/17/1982	1	0.035	86.86	0.08
707	11/16/1981	1	0.035	86.86	0.08
707	2/8/1982	1	0.035	86.86	0.08
707	11/5/1986	1	0.035	86.86	0.08
707	11/15/1978	1	0.035	86.86	0.08
707	2/10/1984	1	0.035	86.86	0.08
707	11/4/1979	1	0.035	86.86	0.08
707	11/12/1979	1	0.035	86.86	0.08
707	11/13/1978	1	0.035	86.86	0.08
707	11/8/1984	1	0.035	86.86	0.08
707	11/27/1976	1	0.035	86.86	0.08
707	11/16/1984	1	0.035	86.86	0.08
707	11/23/1984	1	0.035	86.86	0.08
707	11/26/1989	1	0.035	86.86	0.08
707	11/17/1983	1	0.035	86.86	0.08
707	11/10/1988	22	0.035	86.86	0.08
707	2/3/1985	1	0.035	86.86	0.08
707	2/20/1985	1	0.035	86.86	0.08
708	3/12/1965	5	0.035	86.98	0.08
710	4/12/1983	27	0.034	87.22	0.08
710	4/16/1990	18	0.034	87.22	0.08
713	9/16/1982	27	0.034	87.59	0.08
713	4/15/1978	2	0.034	87.59	0.08
713	9/18/1985	2	0.034	87.59	0.08
714	4/18/1981	10	0.034	87.71	0.08
716	4/2/1981	6	0.034	87.96	0.08
716	4/8/1978	6	0.034	87.96	0.08
740	3/28/1983	1	0.034	90.91	0.08
740	10/7/1983	19	0.034	90.91	0.08
740	3/13/1969	1	0.034	90.91	0.08
740	10/4/1979	1	0.034	90.91	0.08
740	3/29/1967	1	0.034	90.91	0.08
740	10/15/1951	1	0.034	90.91	0.08
740	3/22/1977	1	0.034	90.91	0.08
740	10/5/1977	1	0.034	90.91	0.08
740	3/18/1981	1	0.034	90.91	0.08
740	10/11/1981	1	0.034	90.91	0.08
740	10/26/1982	1	0.034	90.91	0.08
740	3/18/1980	1	0.034	90.91	0.08
740	3/10/1981	1	0.034	90.91	0.08
740	3/14/1981	1	0.034	90.91	0.08
740	10/7/1985	1	0.034	90.91	0.08
740	10/6/1985	1	0.034	90.91	0.08
740	3/13/1991	1	0.034	90.91	0.08
740	3/11/1991	1	0.034	90.91	0.08
740	10/11/1986	1	0.034	90.91	0.08
740	3/1/1986	1	0.034	90.91	0.08
740	3/29/1992	1	0.034	90.91	0.08
740	3/31/1992	1	0.034	90.91	0.08
740	10/23/1987	1	0.034	90.91	0.08
740	10/28/1987	1	0.034	90.91	0.08
741	5/28/1990	9	0.034	91.03	0.08
742	5/14/1989	25	0.034	91.15	0.08
743	5/19/1957	1	0.034	91.28	0.08
744	5/21/1957	1	0.034	91.4	0.08
745	8/18/1983	4	0.034	91.52	0.08
747	6/9/1990	25	0.034	91.77	0.08
747	7/26/1976	2	0.034	91.77	0.08
748	7/17/1987	4	0.034	91.89	0.08
749	5/27/1962	1	0.034	92.01	0.08
766	4/28/1980	18	0.034	94.1	0.08
766	4/18/1988	1	0.034	94.1	0.08

766	9/9/1977	1	0.034	94.1	0.08
766	4/27/1970	1	0.034	94.1	0.08
766	9/5/1977	1	0.034	94.1	0.08
766	4/21/1980	1	0.034	94.1	0.08
766	9/16/1978	1	0.034	94.1	0.08
766	4/25/1978	1	0.034	94.1	0.08
766	4/7/1978	1	0.034	94.1	0.08
766	4/2/1978	1	0.034	94.1	0.08
766	4/1/1980	1	0.034	94.1	0.08
766	4/26/1981	1	0.034	94.1	0.08
766	4/4/1982	1	0.034	94.1	0.08
766	4/11/1982	1	0.034	94.1	0.08
766	9/15/1982	1	0.034	94.1	0.08
766	4/1/1986	1	0.034	94.1	0.08
766	4/21/1985	1	0.034	94.1	0.08
780	5/5/1992	1	0.033	95.82	0.07
780	5/7/1979	1	0.033	95.82	0.07
780	5/17/1992	1	0.033	95.82	0.07
780	5/29/1988	1	0.033	95.82	0.07
780	5/6/1982	1	0.033	95.82	0.07
780	5/6/1983	1	0.033	95.82	0.07
780	5/1/1983	24	0.033	95.82	0.07
780	5/1/1981	1	0.033	95.82	0.07
780	5/12/1977	1	0.033	95.82	0.07
780	5/7/1976	1	0.033	95.82	0.07
780	5/2/1980	1	0.033	95.82	0.07
780	5/8/1980	1	0.033	95.82	0.07
780	5/9/1980	25	0.033	95.82	0.07
780	5/13/1990	1	0.033	95.82	0.07
784	8/14/1987	1	0.033	96.31	0.07
784	8/6/1983	1	0.033	96.31	0.07
784	8/19/1979	1	0.033	96.31	0.07
784	8/15/1990	1	0.033	96.31	0.07
785	1/20/1969	1	0.033	96.44	0.07
797	7/31/1991	1	0.033	97.91	0.07
797	7/20/1977	1	0.033	97.91	0.07
797	7/27/1977	1	0.033	97.91	0.07
797	7/22/1977	1	0.033	97.91	0.07
797	7/15/1977	1	0.033	97.91	0.07
797	6/17/1982	1	0.033	97.91	0.07
797	6/1/1976	1	0.033	97.91	0.07
797	6/10/1976	1	0.033	97.91	0.07
797	7/15/1984	1	0.033	97.91	0.07
797	7/14/1977	1	0.033	97.91	0.07
797	6/4/1989	1	0.033	97.91	0.07
797	6/30/1976	1	0.033	97.91	0.07
798	12/6/1956	1	0.032	98.03	0.07
799	1/18/1969	1	0.032	98.16	0.07
800	1/10/1957	1	0.032	98.28	0.07
801	1/10/1970	1	0.032	98.4	0.07
802	1/3/1998	1	0.032	98.53	0.07
803	12/12/1975	1	0.032	98.65	0.07
804	12/9/1963	1	0.032	98.77	0.07
805	11/28/1970	1	0.032	98.89	0.07
806	2/29/1964	1	0.032	99.02	0.07
808	11/29/2001	1	0.032	99.26	0.07
808	2/23/2001	1	0.032	99.26	0.07
810	2/23/2000	1	0.032	99.51	0.07
810	2/17/2002	1	0.032	99.51	0.07
811	11/18/1965	1	0.032	99.63	0.07
812	1/27/1968	1	0.032	99.75	0.07
813	3/22/1962	1	0.031	99.88	0.07

Post-project (Mitigated) Flow Frequency - Long-term Simulation

PACIFICASITE-DEVELOPED
Statistics - Node POC1 Total Inflow

Rank	Start Date	Event Duration (hours)	Event Peak (CFS)	Exceedance Frequency (percent)	Return Period (years)
1	1/3/1995	342	14.128	0.12	58
2	1/27/1980	149	5.754	0.24	29
3	4/14/2003	121	5.147	0.36	19.33
4	1/14/1979	128	4.37	0.47	14.5
5	9/29/1983	143	4.117	0.59	11.6
6	1/3/1978	431	3.95	0.71	9.67
7	1/12/1993	243	3.873	0.83	8.29
8	2/18/1969	282	3.73	0.95	7.25
9	2/27/1978	193	3.311	1.07	6.44
10	2/25/2003	121	2.919	1.19	5.8
11	2/3/1958	130	2.887	1.3	5.27
12	3/14/1982	189	2.718	1.42	4.83
13	2/13/1980	283	2.692	1.54	4.46
14	1/13/1952	223	2.62	1.66	4.14
15	10/27/2004	112	2.552	1.78	3.87
16	11/22/1965	127	2.526	1.9	3.63
17	2/5/1978	273	2.365	2.02	3.41
18	1/5/1979	134	2.349	2.14	3.22
19	2/18/2005	223	2.314	2.25	3.05
20	2/22/2008	116	2.246	2.37	2.9
21	2/14/1998	335	2.242	2.49	2.76
22	9/23/1986	112	2.222	2.61	2.64
23	12/28/1991	336	2.198	2.73	2.52
24	2/13/1986	149	2.156	2.85	2.42
25	3/7/1968	116	2.139	2.97	2.32
26	2/3/1998	200	2.036	3.08	2.23
27	12/28/2004	436	2.01	3.2	2.15
28	4/1/1958	235	1.882	3.32	2.07
29	10/29/2000	80	1.869	3.44	2
30	8/16/1977	114	1.734	3.56	1.93
31	3/2/1980	156	1.714	3.68	1.87
32	1/9/1980	177	1.694	3.8	1.81
33	2/27/1991	141	1.673	3.91	1.76
34	1/20/1962	113	1.662	4.03	1.71
35	11/21/1996	113	1.648	4.15	1.66
36	1/27/1983	185	1.64	4.27	1.61
37	12/16/1970	159	1.618	4.39	1.57
38	3/16/1963	83	1.608	4.51	1.53
39	12/1/1961	96	1.606	4.63	1.49
40	1/24/1969	166	1.601	4.74	1.45
41	2/23/1983	287	1.572	4.86	1.41
42	3/11/1995	120	1.508	4.98	1.38
43	1/16/1972	127	1.484	5.1	1.35
44	4/27/1960	86	1.457	5.22	1.32
45	12/3/1966	169	1.441	5.34	1.29
46	12/24/1983	124	1.414	5.46	1.26
47	1/26/2008	98	1.411	5.58	1.23
48	1/10/1960	179	1.403	5.69	1.21
49	12/20/1988	190	1.368	5.81	1.18
50	1/5/2008	136	1.366	5.93	1.16
51	2/22/2004	233	1.353	6.05	1.14
52	12/22/1971	172	1.347	6.17	1.12
53	11/14/1952	111	1.329	6.29	1.09
54	10/17/2004	174	1.323	6.41	1.07
55	4/28/2005	55	1.316	6.52	1.05
56	9/17/1963	122	1.315	6.64	1.04
57	2/12/1992	148	1.313	6.76	1.02
58	11/11/1985	104	1.299	6.88	1
59	1/12/1997	159	1.294	7	0.98
60	1/13/1957	92	1.286	7.12	0.97
61	3/3/1995	158	1.284	7.24	0.95
62	11/14/1965	136	1.267	7.35	0.94
63	2/11/2003	121	1.252	7.47	0.92
64	2/3/1994	122	1.225	7.59	0.91
65	2/18/1993	150	1.213	7.71	0.89
66	1/26/1957	165	1.182	7.83	0.88
67	11/30/2007	115	1.175	7.95	0.87
68	2/1/1960	88	1.173	8.07	0.85
69	3/15/1986	75	1.163	8.19	0.84
70	2/6/1969	88	1.14	8.3	0.83
71	11/29/1985	115	1.13	8.42	0.82
72	12/18/1967	112	1.124	8.54	0.81
73	1/18/1954	181	1.102	8.66	0.79
74	2/7/1993	94	1.088	8.78	0.78
75	3/18/1981	94	1.078	8.9	0.77
76	3/24/1994	80	1.032	9.02	0.76
77	1/22/1967	124	1.028	9.13	0.75
78	11/20/1963	113	0.984	9.25	0.74
79	3/15/1958	241	0.983	9.37	0.73
80	2/19/1958	82	0.982	9.49	0.73
81	11/17/1986	93	0.98	9.61	0.72
82	12/22/1982	72	0.977	9.73	0.71
83	12/16/1987	110	0.975	9.85	0.7
84	3/15/2003	89	0.961	9.96	0.69
85	4/12/1956	106	0.958	10.08	0.68
86	1/2/1977	196	0.946	10.2	0.67

10-year Q:	3.979	cfs	(Adjust Column "I" to interpolate from Table)
5-year Q:	2.783	cfs	
2-year Q:	1.869	cfs	
Lower Flow Threshold:	10%		
0.1xQ2 (Post Mit):	0.187	cfs	

87	3/25/1991	130	0.938	10.32	0.67
88	2/11/1959	71	0.935	10.44	0.66
89	1/25/1956	157	0.929	10.56	0.65
90	11/24/1983	69	0.923	10.68	0.64
91	11/23/1988	103	0.917	10.79	0.64
92	2/13/1954	96	0.899	10.91	0.63
93	2/13/2001	112	0.893	11.03	0.62
94	4/7/1965	147	0.885	11.15	0.62
95	3/15/1952	98	0.853	11.27	0.61
96	4/8/1975	106	0.848	11.39	0.6
97	7/22/1976	66	0.842	11.51	0.6
98	1/30/2007	63	0.82	11.63	0.59
99	12/9/1965	208	0.801	11.74	0.59
100	11/8/2002	77	0.799	11.86	0.58
101	12/25/1977	143	0.796	11.98	0.57
102	11/30/1952	106	0.794	12.1	0.57
103	1/26/2001	71	0.788	12.22	0.56
104	1/25/1997	88	0.779	12.34	0.56
105	1/6/1993	128	0.778	12.46	0.55
106	3/7/1952	105	0.777	12.57	0.55
107	2/17/1990	84	0.771	12.69	0.54
108	10/11/1987	118	0.768	12.81	0.54
109	3/13/1967	88	0.757	12.93	0.53
110	9/5/1978	80	0.749	13.05	0.53
111	2/6/1966	105	0.734	13.17	0.52
112	5/10/1957	76	0.726	13.29	0.52
113	4/20/1983	57	0.721	13.4	0.51
114	11/22/1973	63	0.72	13.52	0.51
115	1/17/1988	86	0.71	13.64	0.5
116	4/19/1988	96	0.692	13.76	0.5
117	3/19/1991	120	0.68	13.88	0.5
118	3/20/1992	84	0.68	14	0.49
119	1/25/1999	94	0.675	14.12	0.49
120	2/7/1962	113	0.67	14.23	0.48
121	12/20/2002	63	0.669	14.35	0.48
122	12/28/1951	124	0.663	14.47	0.48
123	2/25/2001	110	0.655	14.59	0.47
124	3/7/1974	86	0.625	14.71	0.47
125	12/25/1968	58	0.623	14.83	0.46
126	12/7/1982	70	0.614	14.95	0.46
127	10/13/2006	37	0.611	15.07	0.46
128	11/14/1972	130	0.608	15.18	0.45
129	1/29/1998	46	0.607	15.3	0.45
130	12/7/1992	78	0.598	15.42	0.45
131	11/7/1979	46	0.593	15.54	0.44
132	11/26/1981	124	0.592	15.66	0.44
133	1/10/2001	101	0.59	15.78	0.44
134	2/28/1981	160	0.59	15.9	0.43
135	2/11/1973	120	0.585	16.01	0.43
136	12/24/1959	60	0.579	16.13	0.43
137	3/17/1983	208	0.576	16.25	0.42
138	1/18/1955	67	0.574	16.37	0.42
139	11/30/1967	24	0.572	16.49	0.42
140	11/19/1967	112	0.569	16.61	0.41
141	1/7/1957	89	0.56	16.73	0.41
142	11/17/1964	52	0.557	16.84	0.41
143	9/9/1976	93	0.556	16.96	0.41
144	11/28/1970	124	0.539	17.08	0.4
145	12/26/1984	104	0.534	17.2	0.4
146	3/8/1986	146	0.532	17.32	0.4
147	2/28/1970	146	0.525	17.44	0.39
148	1/16/1990	59	0.524	17.56	0.39
149	2/11/2005	113	0.517	17.67	0.39
150	1/23/1995	82	0.516	17.79	0.39
151	1/25/1958	95	0.513	17.91	0.38
152	12/11/1985	71	0.5	18.03	0.38
153	11/24/1985	85	0.49	18.15	0.38
154	3/10/2006	41	0.488	18.27	0.38
155	3/30/1978	88	0.478	18.39	0.37
156	12/9/2001	36	0.476	18.51	0.37
157	12/30/1981	207	0.467	18.62	0.37
158	2/28/1960	88	0.464	18.74	0.37
159	3/4/2000	104	0.459	18.86	0.36
160	2/17/1994	95	0.458	18.98	0.36
161	3/20/1973	53	0.454	19.1	0.36
162	2/9/1963	128	0.449	19.22	0.36
163	3/17/1979	112	0.444	19.34	0.36
164	11/10/1954	89	0.442	19.45	0.35
165	2/28/1957	67	0.442	19.57	0.35
166	3/31/1965	120	0.442	19.69	0.35
167	12/29/1965	64	0.44	19.81	0.35
168	3/11/1973	50	0.438	19.93	0.35
169	4/11/1967	67	0.438	20.05	0.34
170	1/28/1981	91	0.435	20.17	0.34
171	1/10/1955	35	0.433	20.28	0.34
172	11/30/1993	24	0.429	20.4	0.34
173	12/4/1974	64	0.429	20.52	0.34
174	3/20/1954	132	0.413	20.64	0.33
175	3/2/1992	60	0.413	20.76	0.33
176	7/15/1976	64	0.404	20.88	0.33
177	3/11/1978	54	0.398	21	0.33
178	11/24/2001	30	0.392	21.12	0.33
179	2/9/1982	74	0.39	21.23	0.32
180	3/30/1954	20	0.383	21.35	0.32
181	12/9/1996	116	0.383	21.47	0.32

182	12/24/2003	44	0.38	21.59	0.32
183	11/24/1984	32	0.378	21.71	0.32
184	1/21/1964	73	0.378	21.83	0.32
185	4/20/2007	25	0.377	21.95	0.31
186	4/4/2006	61	0.375	22.06	0.31
187	3/8/1975	149	0.374	22.18	0.31
188	1/9/1991	30	0.373	22.3	0.31
189	3/24/1977	59	0.369	22.42	0.31
190	3/27/1979	72	0.368	22.54	0.31
191	1/30/1966	43	0.367	22.66	0.3
192	4/1/1982	39	0.364	22.78	0.3
193	4/7/2001	27	0.363	22.89	0.3
194	11/22/1951	27	0.363	23.01	0.3
195	3/25/1993	77	0.361	23.13	0.3
196	2/4/1976	199	0.358	23.25	0.3
197	7/8/1976	61	0.355	23.37	0.29
198	5/7/1977	116	0.355	23.49	0.29
199	5/12/1998	30	0.352	23.61	0.29
200	1/30/1993	34	0.35	23.72	0.29
201	12/4/1987	25	0.348	23.84	0.29
202	11/8/1998	32	0.344	23.96	0.29
203	1/20/1982	87	0.344	24.08	0.29
204	4/20/1957	55	0.343	24.2	0.28
205	3/18/1962	45	0.341	24.32	0.28
206	2/20/2000	90	0.341	24.44	0.28
207	11/11/1983	82	0.339	24.56	0.28
208	3/5/1973	100	0.335	24.67	0.28
209	10/13/1957	30	0.334	24.79	0.28
210	2/21/1959	60	0.33	24.91	0.28
211	11/14/1988	38	0.33	25.03	0.27
212	12/18/1984	85	0.326	25.15	0.27
213	2/23/1987	65	0.325	25.27	0.27
214	4/16/1995	97	0.324	25.39	0.27
215	1/7/1974	83	0.32	25.5	0.27
216	4/14/1971	28	0.32	25.62	0.27
217	2/8/1981	75	0.317	25.74	0.27
218	12/16/2002	35	0.316	25.86	0.27
219	2/5/1965	66	0.315	25.98	0.26
220	2/9/1985	52	0.311	26.1	0.26
221	11/6/1969	37	0.304	26.22	0.26
222	3/16/1954	31	0.303	26.33	0.26
223	3/1/1976	60	0.301	26.45	0.26
224	2/25/1958	29	0.3	26.57	0.26
225	1/9/1998	48	0.3	26.69	0.26
226	12/15/1988	100	0.3	26.81	0.26
227	11/7/1966	69	0.299	26.93	0.26
228	2/16/1959	54	0.297	27.05	0.25
229	11/5/1960	31	0.297	27.16	0.25
230	12/6/1997	39	0.295	27.28	0.25
231	3/19/1994	80	0.293	27.4	0.25
232	3/6/1994	82	0.292	27.52	0.25
233	2/27/2006	61	0.292	27.64	0.25
234	6/5/1993	24	0.288	27.76	0.25
235	2/26/1955	55	0.282	27.88	0.25
236	1/6/1987	55	0.278	28	0.25
237	3/21/1969	31	0.278	28.11	0.24
238	12/9/1959	24	0.277	28.23	0.24
239	2/16/1971	36	0.276	28.35	0.24
240	2/25/1996	77	0.276	28.47	0.24
241	4/14/1988	90	0.274	28.59	0.24
242	12/16/1978	91	0.271	28.71	0.24
243	2/6/1992	106	0.267	28.83	0.24
244	1/30/1979	85	0.266	28.94	0.24
245	3/31/1998	34	0.265	29.06	0.24
246	3/10/1980	21	0.264	29.18	0.24
247	3/25/1998	105	0.264	29.3	0.23
248	10/30/1996	34	0.262	29.42	0.23
249	4/26/1959	25	0.261	29.54	0.23
250	12/9/1954	24	0.26	29.66	0.23
251	11/9/1982	43	0.256	29.77	0.23
252	12/11/1951	40	0.256	29.89	0.23
253	3/25/1980	25	0.254	30.01	0.23
254	12/7/1984	24	0.254	30.13	0.23
255	1/17/1980	46	0.254	30.25	0.23
256	3/9/1978	21	0.252	30.37	0.23
257	4/1/2004	23	0.251	30.49	0.23
258	4/4/1987	31	0.25	30.6	0.22
259	1/26/1961	57	0.25	30.72	0.22
260	4/18/1983	25	0.25	30.84	0.22
261	1/31/1996	48	0.249	30.96	0.22
262	3/1/1953	39	0.249	31.08	0.22
263	4/4/1990	35	0.248	31.2	0.22
264	12/5/1957	31	0.244	31.32	0.22
265	8/30/1976	24	0.244	31.44	0.22
266	3/25/1989	40	0.244	31.55	0.22
267	8/28/1951	28	0.243	31.67	0.22
268	4/1/1968	19	0.242	31.79	0.22
269	12/20/1959	31	0.242	31.91	0.22
270	4/29/1983	81	0.241	32.03	0.21
271	12/30/1976	42	0.24	32.15	0.21
272	9/11/1960	27	0.24	32.27	0.21
273	2/21/1979	25	0.239	32.38	0.21
274	3/6/1958	37	0.238	32.5	0.21
275	1/28/1982	25	0.238	32.62	0.21
276	2/2/1988	80	0.238	32.74	0.21

277	1/30/1986	59	0.238	32.86	0.21
278	12/3/1983	30	0.238	32.98	0.21
279	3/16/1957	23	0.236	33.1	0.21
280	12/7/1980	22	0.236	33.21	0.21
281	3/22/1964	38	0.236	33.33	0.21
282	12/10/2006	31	0.235	33.45	0.21
283	4/22/1980	36	0.235	33.57	0.2
284	2/20/1996	52	0.234	33.69	0.2
285	2/2/2004	32	0.23	33.81	0.2
286	1/25/1960	23	0.229	33.93	0.2
287	3/1/1979	41	0.228	34.05	0.2
288	2/19/1962	62	0.228	34.16	0.2
289	1/6/1959	17	0.228	34.28	0.2
290	1/16/1955	27	0.227	34.4	0.2
291	11/15/1963	24	0.226	34.52	0.2
292	4/26/1963	17	0.225	34.64	0.2
293	12/16/1984	17	0.222	34.76	0.2
294	8/26/2007	19	0.221	34.88	0.2
295	2/13/1995	35	0.22	34.99	0.2
296	1/24/1965	22	0.22	35.11	0.2
297	3/11/1955	17	0.22	35.23	0.2
298	4/5/1969	16	0.219	35.35	0.19
299	12/30/1952	25	0.218	35.47	0.19
300	6/10/1957	16	0.218	35.59	0.19
301	2/29/1952	33	0.216	35.71	0.19
302	2/11/2000	84	0.215	35.82	0.19
303	2/10/1970	56	0.214	35.94	0.19
304	12/20/1952	27	0.213	36.06	0.19
305	4/11/1999	33	0.213	36.18	0.19
306	12/27/1992	56	0.212	36.3	0.19
307	11/21/1978	21	0.212	36.42	0.19
308	11/23/1952	22	0.211	36.54	0.19
309	1/25/1952	49	0.21	36.65	0.19
310	4/15/1976	27	0.21	36.77	0.19
311	4/17/1975	19	0.209	36.89	0.19
312	2/7/1986	39	0.209	37.01	0.19
313	12/27/1964	44	0.207	37.13	0.19
314	3/6/1962	30	0.205	37.25	0.18
315	2/6/1983	56	0.204	37.37	0.18
316	11/14/1955	17	0.204	37.49	0.18
317	2/16/1955	37	0.203	37.6	0.18
318	4/30/1955	45	0.203	37.72	0.18
319	3/28/2006	25	0.202	37.84	0.18
320	12/6/1986	39	0.202	37.96	0.18
321	1/13/1969	44	0.201	38.08	0.18
322	12/4/1980	37	0.199	38.2	0.18
323	1/12/1954	31	0.199	38.32	0.18
324	12/28/1974	43	0.199	38.43	0.18
325	11/26/1960	23	0.198	38.55	0.18
326	1/24/1994	77	0.198	38.67	0.18
327	2/15/1962	35	0.197	38.79	0.18
328	4/11/1998	19	0.197	38.91	0.18
329	12/4/2004	46	0.197	39.03	0.18
330	4/27/1953	20	0.197	39.15	0.18
331	3/6/2001	39	0.197	39.26	0.18
332	9/4/1963	19	0.196	39.38	0.17
333	4/6/1986	31	0.196	39.5	0.17
334	10/20/1979	34	0.195	39.62	0.17
335	10/28/1974	46	0.195	39.74	0.17
336	11/17/1973	56	0.195	39.86	0.17
337	4/10/1952	29	0.195	39.98	0.17
338	4/22/1955	19	0.195	40.09	0.17
339	11/11/1972	20	0.195	40.21	0.17
340	9/26/1982	28	0.194	40.33	0.17
341	12/31/2005	70	0.193	40.45	0.17
342	2/4/1999	33	0.193	40.57	0.17
343	1/16/1970	32	0.193	40.69	0.17
344	1/5/1957	21	0.193	40.81	0.17
345	12/6/1998	16	0.193	40.93	0.17
346	10/26/2000	42	0.192	41.04	0.17
347	11/29/1982	45	0.191	41.16	0.17
348	1/10/1982	22	0.191	41.28	0.17
349	2/3/1975	43	0.191	41.4	0.17
350	11/25/1961	36	0.19	41.52	0.17
351	10/9/1986	44	0.19	41.64	0.17
352	10/17/1984	21	0.19	41.76	0.16
353	10/16/1980	21	0.19	41.87	0.16
354	2/28/1973	21	0.19	41.99	0.16
355	11/12/1960	15	0.189	42.11	0.16
356	8/24/1988	19	0.188	42.23	0.16
357	12/4/1972	26	0.188	42.35	0.16
358	12/18/2007	28	0.187	42.47	0.16
359	10/31/1957	19	0.187	42.59	0.16
360	3/21/1995	22	0.187	42.7	0.16
361	1/21/1995	16	0.186	42.82	0.16
362	2/23/1971	14	0.186	42.94	0.16
363	2/13/1968	22	0.186	43.06	0.16
364	2/25/1981	26	0.186	43.18	0.16
365	5/28/1990	25	0.186	43.3	0.16
366	11/20/1961	20	0.185	43.42	0.16
367	1/18/1969	89	0.185	43.53	0.16
368	3/25/1999	24	0.185	43.65	0.16
369	1/22/1997	55	0.185	43.77	0.16
370	4/21/1967	19	0.183	43.89	0.16
371	9/23/1958	24	0.183	44.01	0.16

372	5/22/2006	21	0.182	44.13	0.16
373	11/18/1982	41	0.181	44.25	0.16
374	4/16/1990	31	0.181	44.37	0.16
375	3/12/1952	24	0.18	44.48	0.15
376	12/15/1957	58	0.179	44.6	0.15
377	3/12/1996	33	0.179	44.72	0.15
378	2/8/1959	32	0.179	44.84	0.15
379	2/8/1960	46	0.179	44.96	0.15
380	1/21/1996	27	0.178	45.08	0.15
381	3/2/1974	33	0.178	45.2	0.15
382	6/9/1990	37	0.178	45.31	0.15
383	2/28/2007	25	0.178	45.43	0.15
384	4/17/2000	27	0.177	45.55	0.15
385	1/30/1978	26	0.177	45.67	0.15
386	12/10/1984	23	0.175	45.79	0.15
387	3/23/1995	21	0.175	45.91	0.15
388	1/5/1988	21	0.175	46.03	0.15
389	11/24/1978	18	0.175	46.14	0.15
390	1/2/1997	43	0.175	46.26	0.15
391	12/29/1982	17	0.174	46.38	0.15
392	2/4/1990	17	0.174	46.5	0.15
393	2/14/1979	20	0.174	46.62	0.15
394	2/9/1975	33	0.174	46.74	0.15
395	12/7/2007	55	0.174	46.86	0.15
396	1/7/1985	32	0.174	46.98	0.15
397	3/25/1982	23	0.173	47.09	0.15
398	4/17/1963	22	0.173	47.21	0.15
399	1/28/1985	23	0.173	47.33	0.15
400	12/19/1951	17	0.173	47.45	0.14
401	11/20/1983	23	0.173	47.57	0.14
402	1/31/1990	16	0.173	47.69	0.14
403	2/2/1985	50	0.173	47.81	0.14
404	11/4/1987	26	0.173	47.92	0.14
405	2/18/2006	41	0.173	48.04	0.14
406	11/14/1953	28	0.172	48.16	0.14
407	10/31/1987	54	0.172	48.28	0.14
408	11/10/1978	50	0.172	48.4	0.14
409	3/31/1967	17	0.172	48.52	0.14
410	3/22/1987	16	0.171	48.64	0.14
411	12/27/1996	29	0.171	48.75	0.14
412	4/12/1983	36	0.171	48.87	0.14
413	3/27/1958	17	0.169	48.99	0.14
414	1/13/1990	36	0.169	49.11	0.14
415	10/16/2005	52	0.169	49.23	0.14
416	12/17/1977	23	0.168	49.35	0.14
417	11/27/1975	40	0.168	49.47	0.14
418	12/11/1993	21	0.168	49.58	0.14
419	2/23/1953	21	0.167	49.7	0.14
420	1/12/1971	19	0.166	49.82	0.14
421	3/10/2001	19	0.166	49.94	0.14
422	1/6/1953	49	0.166	50.06	0.14
423	10/16/1971	21	0.165	50.18	0.14
424	12/28/1952	17	0.165	50.3	0.14
425	2/6/1973	37	0.164	50.42	0.14
426	2/3/2008	28	0.164	50.53	0.14
427	10/21/1957	14	0.162	50.65	0.14
428	4/18/1967	40	0.161	50.77	0.14
429	12/5/1996	21	0.16	50.89	0.14
430	1/23/2008	28	0.16	51.01	0.13
431	3/22/2005	18	0.16	51.13	0.13
432	1/9/1970	60	0.16	51.25	0.13
433	2/13/1987	17	0.16	51.36	0.13
434	2/11/2007	17	0.159	51.48	0.13
435	12/18/1997	20	0.159	51.6	0.13
436	3/12/1965	39	0.159	51.72	0.13
437	2/9/1989	25	0.158	51.84	0.13
438	5/24/1977	15	0.158	51.96	0.13
439	10/26/1991	20	0.158	52.08	0.13
440	3/2/1989	20	0.158	52.19	0.13
441	5/21/1957	14	0.158	52.31	0.13
442	3/21/1980	24	0.157	52.43	0.13
443	1/30/1955	20	0.157	52.55	0.13
444	11/10/1969	15	0.156	52.67	0.13
445	12/1/1998	16	0.156	52.79	0.13
446	2/3/1989	30	0.156	52.91	0.13
447	4/13/1976	20	0.155	53.02	0.13
448	11/17/1955	17	0.155	53.14	0.13
449	2/23/1957	19	0.155	53.26	0.13
450	11/14/1968	20	0.154	53.38	0.13
451	12/9/1983	12	0.154	53.5	0.13
452	12/20/1975	18	0.153	53.62	0.13
453	1/7/1989	13	0.153	53.74	0.13
454	1/29/1977	13	0.151	53.86	0.13
455	2/20/2001	17	0.151	53.97	0.13
456	2/23/1979	14	0.151	54.09	0.13
457	3/11/1958	36	0.151	54.21	0.13
458	11/9/1964	41	0.151	54.33	0.13
459	3/15/1991	13	0.15	54.45	0.13
460	3/27/1992	12	0.149	54.57	0.13
461	5/14/1989	35	0.148	54.69	0.13
462	1/16/1996	15	0.147	54.8	0.13
463	12/3/1984	13	0.147	54.92	0.13
464	2/2/1989	13	0.146	55.04	0.13
465	3/28/1963	15	0.146	55.16	0.12
466	4/18/1981	19	0.145	55.28	0.12

467	3/27/1974	16	0.145	55.4	0.12
468	11/21/2004	13	0.145	55.52	0.12
469	12/25/1994	15	0.144	55.63	0.12
470	11/12/1976	16	0.144	55.75	0.12
471	12/5/1951	17	0.143	55.87	0.12
472	1/3/1998	33	0.142	55.99	0.12
473	7/26/1976	12	0.142	56.11	0.12
474	2/23/2001	15	0.142	56.23	0.12
475	3/8/1992	18	0.142	56.35	0.12
476	12/21/1979	16	0.141	56.47	0.12
477	12/7/1972	40	0.14	56.58	0.12
478	11/29/2001	15	0.14	56.7	0.12
479	3/13/1998	36	0.14	56.82	0.12
480	1/2/1993	18	0.139	56.94	0.12
481	2/23/1956	28	0.139	57.06	0.12
482	11/13/1984	12	0.139	57.18	0.12
483	3/5/1987	27	0.138	57.3	0.12
484	1/23/1989	12	0.137	57.41	0.12
485	3/22/1975	12	0.137	57.53	0.12
486	10/19/1972	33	0.135	57.65	0.12
487	3/15/1987	12	0.135	57.77	0.12
488	12/31/1964	13	0.135	57.89	0.12
489	3/21/2006	14	0.134	58.01	0.12
490	2/20/2008	14	0.134	58.13	0.12
491	2/19/2007	15	0.134	58.24	0.12
492	11/10/1994	13	0.134	58.36	0.12
493	3/4/1996	15	0.133	58.48	0.12
494	10/10/1966	16	0.133	58.6	0.12
495	1/13/1962	13	0.132	58.72	0.12
496	2/13/1958	12	0.131	58.84	0.12
497	12/12/1975	11	0.131	58.96	0.12
498	4/15/1978	11	0.131	59.07	0.12
499	12/6/1956	12	0.13	59.19	0.12
500	2/10/1997	11	0.129	59.31	0.12
501	12/3/2001	35	0.129	59.43	0.12
502	1/1/1955	16	0.129	59.55	0.12
503	1/10/1973	10	0.128	59.67	0.12
504	10/22/1953	13	0.126	59.79	0.12
505	11/12/2003	26	0.126	59.91	0.11
506	1/25/1996	10	0.126	60.02	0.11
507	10/21/1985	11	0.126	60.14	0.11
508	12/4/1971	11	0.126	60.26	0.11
509	5/19/1957	11	0.125	60.38	0.11
510	4/22/2007	10	0.125	60.5	0.11
511	2/22/2007	10	0.125	60.62	0.11
512	4/27/1984	13	0.125	60.74	0.11
513	11/3/1960	12	0.124	60.85	0.11
514	3/17/2002	15	0.123	60.97	0.11
515	12/22/1965	14	0.122	61.09	0.11
516	12/27/2006	11	0.121	61.21	0.11
517	12/14/1993	17	0.121	61.33	0.11
518	2/24/1962	11	0.121	61.45	0.11
519	12/8/1969	10	0.119	61.57	0.11
520	3/28/1961	15	0.119	61.68	0.11
521	1/20/1957	11	0.118	61.8	0.11
522	2/3/1973	11	0.118	61.92	0.11
523	12/16/2006	15	0.117	62.04	0.11
524	1/1/1974	11	0.117	62.16	0.11
525	1/20/1999	23	0.117	62.28	0.11
526	12/23/1995	10	0.116	62.4	0.11
527	12/3/1954	10	0.116	62.51	0.11
528	12/17/1952	15	0.116	62.63	0.11
529	3/28/1960	11	0.115	62.75	0.11
530	6/3/1999	10	0.114	62.87	0.11
531	9/16/1982	35	0.114	62.99	0.11
532	12/13/1995	12	0.113	63.11	0.11
533	4/8/1978	14	0.113	63.23	0.11
534	10/15/1964	10	0.113	63.35	0.11
535	11/26/1967	10	0.112	63.46	0.11
536	3/22/1962	9	0.112	63.58	0.11
537	4/25/1975	9	0.112	63.7	0.11
538	12/18/1992	11	0.111	63.82	0.11
539	1/30/1975	9	0.111	63.94	0.11
540	11/28/1998	26	0.111	64.06	0.11
541	11/5/1953	9	0.111	64.18	0.11
542	1/2/1990	12	0.111	64.29	0.11
543	12/6/1952	9	0.111	64.41	0.11
544	2/22/1977	12	0.11	64.53	0.11
545	3/4/2005	24	0.11	64.65	0.11
546	3/16/1977	151	0.11	64.77	0.11
547	3/28/1982	15	0.109	64.89	0.11
548	2/17/2002	11	0.109	65.01	0.11
549	1/27/1966	12	0.108	65.12	0.11
550	4/10/2001	9	0.108	65.24	0.11
551	2/3/1996	9	0.107	65.36	0.11
552	4/26/1955	9	0.107	65.48	0.11
553	3/2/1964	9	0.107	65.6	0.1
554	12/4/1953	9	0.106	65.72	0.1
555	3/3/2006	8	0.105	65.84	0.1
556	1/22/1983	81	0.105	65.95	0.1
557	11/20/1951	27	0.105	66.07	0.1
558	4/3/1969	10	0.103	66.19	0.1
559	2/29/1964	8	0.102	66.31	0.1
560	3/13/1971	9	0.102	66.43	0.1
561	11/14/1957	9	0.101	66.55	0.1

562	11/30/2000	9	0.101	66.67	0.1
563	9/16/1965	22	0.1	66.79	0.1
564	2/24/1977	16	0.1	66.9	0.1
565	6/15/1995	30	0.099	67.02	0.1
567	9/18/1999	4	0.099	67.26	0.1
567	9/20/2005	7	0.099	67.26	0.1
568	3/24/1987	30	0.099	67.38	0.1
569	4/2/1981	13	0.098	67.5	0.1
570	1/31/1999	8	0.098	67.62	0.1
571	3/27/1985	36	0.098	67.73	0.1
572	3/22/1978	30	0.097	67.85	0.1
573	1/15/1984	23	0.097	67.97	0.1
574	4/18/1957	11	0.097	68.09	0.1
575	12/29/1987	25	0.096	68.21	0.1
576	4/14/2006	24	0.096	68.33	0.1
577	1/28/1996	8	0.096	68.45	0.1
578	11/10/2000	24	0.095	68.56	0.1
579	12/7/1967	15	0.094	68.68	0.1
580	4/20/1953	4	0.092	68.8	0.1
581	1/7/1965	7	0.092	68.92	0.1
582	5/11/1958	10	0.092	69.04	0.1
583	5/19/1974	1	0.092	69.16	0.1
584	1/31/1967	9	0.092	69.28	0.1
585	3/11/1999	7	0.092	69.4	0.1
586	3/13/1969	10	0.091	69.51	0.1
587	12/12/1984	7	0.09	69.63	0.1
588	10/10/1951	7	0.09	69.75	0.1
589	10/7/1983	25	0.09	69.87	0.1
590	4/1/1999	7	0.09	69.99	0.1
591	1/17/1983	59	0.089	70.11	0.1
592	4/4/1982	7	0.089	70.23	0.1
593	1/12/1981	7	0.089	70.34	0.1
594	12/19/1991	7	0.089	70.46	0.1
595	11/13/1978	7	0.089	70.58	0.1
596	11/15/1978	7	0.088	70.7	0.1
597	12/4/1955	7	0.088	70.82	0.1
598	1/22/1990	7	0.088	70.94	0.1
599	2/12/1996	7	0.087	71.06	0.1
600	10/15/1951	7	0.087	71.17	0.1
601	3/7/2006	7	0.087	71.29	0.1
602	2/5/1987	7	0.087	71.41	0.1
603	3/10/1969	15	0.087	71.53	0.1
604	4/28/1980	24	0.087	71.65	0.1
605	12/19/1998	7	0.086	71.77	0.1
606	3/29/1992	7	0.086	71.89	0.1
607	1/2/2004	6	0.086	72	0.1
608	12/25/1979	7	0.086	72.12	0.1
609	11/12/1979	7	0.086	72.24	0.1
610	12/19/1983	7	0.086	72.36	0.1
611	11/16/1984	7	0.085	72.48	0.09
612	3/31/1992	7	0.085	72.6	0.09
613	4/5/1975	23	0.085	72.72	0.09
614	12/23/1977	7	0.085	72.84	0.09
615	3/28/1983	6	0.085	72.95	0.09
616	11/17/1983	6	0.085	73.07	0.09
617	5/8/1980	56	0.085	73.19	0.09
618	12/8/2004	8	0.084	73.31	0.09
619	11/17/1987	6	0.084	73.43	0.09
620	12/11/1987	6	0.084	73.55	0.09
621	3/13/1991	6	0.084	73.67	0.09
622	1/22/2008	7	0.084	73.78	0.09
623	12/15/1983	6	0.083	73.9	0.09
624	1/25/1979	6	0.083	74.02	0.09
625	1/5/1983	6	0.083	74.14	0.09
626	3/13/1960	7	0.083	74.26	0.09
627	2/23/1986	6	0.082	74.38	0.09
628	2/17/1982	6	0.082	74.5	0.09
629	2/15/1964	6	0.082	74.61	0.09
630	2/3/1987	6	0.082	74.73	0.09
631	3/14/1981	6	0.081	74.85	0.09
632	1/4/1984	6	0.081	74.97	0.09
633	1/5/1989	6	0.081	75.09	0.09
634	2/26/1993	9	0.081	75.21	0.09
635	12/9/1963	7	0.081	75.33	0.09
636	3/10/1981	6	0.08	75.44	0.09
637	5/7/1971	7	0.08	75.56	0.09
638	3/1/1986	6	0.08	75.68	0.09
639	4/4/1976	25	0.08	75.8	0.09
640	1/30/1958	6	0.08	75.92	0.09
641	12/1/1978	6	0.08	76.04	0.09
642	12/7/1971	6	0.079	76.16	0.09
643	11/23/1984	6	0.079	76.28	0.09
644	7/22/1977	6	0.079	76.39	0.09
645	2/14/2008	6	0.079	76.51	0.09
646	10/7/1985	6	0.079	76.63	0.09
647	12/13/1971	6	0.079	76.75	0.09
648	10/28/1987	6	0.079	76.87	0.09
649	12/3/1960	6	0.079	76.99	0.09
650	1/13/1953	7	0.079	77.11	0.09
651	5/2/1980	6	0.078	77.22	0.09
652	12/1/1973	6	0.077	77.34	0.09
653	3/23/1960	6	0.077	77.46	0.09
654	11/6/1963	7	0.077	77.58	0.09
655	4/7/1999	6	0.077	77.7	0.09
656	12/20/2001	30	0.076	77.82	0.09

657	6/2/1999	9	0.076	77.94	0.09
658	1/9/1972	6	0.076	78.05	0.09
659	4/7/1978	6	0.075	78.17	0.09
660	9/18/1985	7	0.075	78.29	0.09
661	11/14/1987	6	0.075	78.41	0.09
662	4/26/1971	6	0.075	78.53	0.09
664	10/8/1951	4	0.074	78.77	0.09
664	10/1/1996	1	0.074	78.77	0.09
665	2/13/2007	5	0.074	78.88	0.09
666	1/7/1980	5	0.073	79	0.09
667	2/18/2004	6	0.073	79.12	0.09
668	5/6/1983	5	0.073	79.24	0.09
669	2/8/1982	5	0.073	79.36	0.09
670	4/1/1980	5	0.073	79.48	0.09
671	3/26/1973	5	0.073	79.6	0.09
672	4/17/2004	3	0.073	79.72	0.09
673	1/8/2001	6	0.072	79.83	0.09
674	5/1/1995	4	0.072	79.95	0.09
675	11/3/1957	35	0.072	80.07	0.09
676	10/1/1959	6	0.072	80.19	0.09
677	5/1/1981	5	0.071	80.31	0.09
678	5/3/2003	7	0.071	80.43	0.09
679	4/7/1952	11	0.07	80.55	0.09
680	2/20/1985	5	0.07	80.66	0.09
681	1/27/1968	6	0.07	80.78	0.09
682	3/18/1980	5	0.07	80.9	0.09
683	3/9/1969	5	0.069	81.02	0.08
684	10/13/2007	6	0.069	81.14	0.08
685	8/18/1983	8	0.068	81.26	0.08
686	11/11/1958	1	0.068	81.38	0.08
687	5/27/1962	6	0.068	81.49	0.08
688	7/17/1987	8	0.068	81.61	0.08
689	3/6/1965	4	0.067	81.73	0.08
690	12/29/2002	5	0.067	81.85	0.08
691	12/22/2006	5	0.067	81.97	0.08
692	1/24/1957	5	0.066	82.09	0.08
693	7/20/1977	5	0.065	82.21	0.08
694	3/11/1991	5	0.065	82.33	0.08
695	11/21/1955	5	0.065	82.44	0.08
696	3/12/1964	5	0.064	82.56	0.08
697	1/26/1977	5	0.064	82.68	0.08
698	7/27/1977	4	0.064	82.8	0.08
699	1/19/1966	5	0.063	82.92	0.08
700	4/21/2001	6	0.063	83.04	0.08
701	3/26/2004	7	0.062	83.16	0.08
702	10/23/1987	4	0.062	83.27	0.08
703	1/18/1964	6	0.062	83.39	0.08
704	3/15/1999	4	0.062	83.51	0.08
712	12/21/1981	4	0.062	84.46	0.08
712	12/9/1991	1	0.062	84.46	0.08
712	12/18/1991	2	0.062	84.46	0.08
712	1/11/1981	1	0.062	84.46	0.08
712	1/28/1987	4	0.062	84.46	0.08
712	12/1/1989	1	0.062	84.46	0.08
712	12/20/1990	1	0.062	84.46	0.08
712	1/3/1991	1	0.062	84.46	0.08
713	12/7/1955	5	0.062	84.58	0.08
714	2/14/1975	6	0.061	84.7	0.08
715	2/9/1999	4	0.061	84.82	0.08
716	5/9/1956	4	0.061	84.93	0.08
717	11/4/1979	3	0.061	85.05	0.08
725	11/27/1976	4	0.061	86	0.08
725	2/10/1984	2	0.061	86	0.08
725	11/26/1989	1	0.061	86	0.08
725	2/29/1988	1	0.061	86	0.08
725	11/16/1981	1	0.061	86	0.08
725	11/5/1986	1	0.061	86	0.08
725	11/8/1984	1	0.061	86	0.08
725	11/10/1988	24	0.061	86	0.08
726	4/11/1982	4	0.061	86.12	0.08
727	4/18/1996	6	0.06	86.24	0.08
728	12/1/1955	5	0.06	86.36	0.08
729	3/29/1967	3	0.06	86.48	0.08
734	10/4/1979	1	0.06	87.07	0.08
734	10/5/1977	1	0.06	87.07	0.08
734	10/11/1981	1	0.06	87.07	0.08
734	10/6/1985	1	0.06	87.07	0.08
734	10/26/1982	1	0.06	87.07	0.08
735	1/20/1965	3	0.06	87.19	0.08
736	4/26/1981	4	0.06	87.31	0.08
737	11/16/2003	10	0.06	87.43	0.08
738	9/16/1978	3	0.059	87.54	0.08
739	4/1/1986	2	0.059	87.66	0.08
740	9/5/1977	1	0.059	87.78	0.08
746	4/21/1985	1	0.059	88.49	0.08
746	9/15/1982	1	0.059	88.49	0.08
746	4/25/1978	3	0.059	88.49	0.08
746	4/27/1970	4	0.059	88.49	0.08
746	4/21/1980	1	0.059	88.49	0.08
746	9/9/1977	1	0.059	88.49	0.08
747	3/19/2005	17	0.059	88.61	0.08
754	5/7/1976	1	0.059	89.44	0.08
754	5/6/1982	1	0.059	89.44	0.08
754	5/13/1990	1	0.059	89.44	0.08
754	5/17/1992	1	0.059	89.44	0.08

754	5/7/1979	1	0.059	89.44	0.08
754	5/5/1992	1	0.059	89.44	0.08
754	5/29/1988	1	0.059	89.44	0.08
758	8/6/1983	1	0.058	89.92	0.08
758	8/14/1987	1	0.058	89.92	0.08
758	8/15/1990	1	0.058	89.92	0.08
758	8/19/1979	1	0.058	89.92	0.08
767	7/15/1984	1	0.058	90.98	0.08
767	7/31/1991	1	0.058	90.98	0.08
767	7/14/1977	1	0.058	90.98	0.08
767	6/17/1982	1	0.058	90.98	0.08
767	6/4/1989	1	0.058	90.98	0.08
767	7/15/1977	1	0.058	90.98	0.08
767	6/30/1976	1	0.058	90.98	0.08
767	6/10/1976	1	0.058	90.98	0.08
767	6/1/1976	1	0.058	90.98	0.08
768	12/20/1968	4	0.058	91.1	0.08
769	11/16/1957	8	0.057	91.22	0.08
770	1/13/1998	4	0.054	91.34	0.08
771	11/16/1994	3	0.054	91.46	0.08
772	4/27/1956	8	0.054	91.58	0.08
773	11/20/1953	4	0.054	91.7	0.08
774	4/16/1970	1	0.054	91.81	0.07
775	10/16/1963	1	0.054	91.93	0.07
776	5/14/1962	11	0.053	92.05	0.07
777	1/2/1971	4	0.053	92.17	0.07
778	12/14/2001	3	0.052	92.29	0.07
779	4/23/1960	25	0.052	92.41	0.07
780	11/15/1969	4	0.051	92.53	0.07
781	10/19/1963	3	0.051	92.65	0.07
782	12/5/1998	3	0.051	92.76	0.07
783	3/22/2003	4	0.051	92.88	0.07
784	12/2/1951	4	0.05	93	0.07
785	1/19/1998	3	0.05	93.12	0.07
786	12/3/2005	1	0.05	93.24	0.07
787	11/12/2001	28	0.049	93.36	0.07
788	4/15/1998	3	0.049	93.48	0.07
789	10/11/1957	1	0.048	93.59	0.07
790	12/11/1968	2	0.047	93.71	0.07
791	3/2/1966	3	0.047	93.83	0.07
792	4/1/1964	2	0.047	93.95	0.07
793	11/23/1993	2	0.047	94.07	0.07
794	1/7/1952	2	0.046	94.19	0.07
795	10/8/1961	1	0.046	94.31	0.07
796	4/8/1963	6	0.046	94.42	0.07
797	1/28/2005	3	0.046	94.54	0.07
798	9/22/2000	1	0.046	94.66	0.07
799	2/26/1962	3	0.046	94.78	0.07
800	11/27/2006	1	0.045	94.9	0.07
801	6/11/1963	1	0.045	95.02	0.07
803	10/2/1996	3	0.044	95.26	0.07
803	10/7/1951	1	0.044	95.26	0.07
804	1/29/2002	2	0.044	95.37	0.07
805	12/30/2001	2	0.044	95.49	0.07
808	9/22/2007	1	0.043	95.85	0.07
808	4/3/1997	1	0.043	95.85	0.07
808	4/24/1994	1	0.043	95.85	0.07
809	3/15/1963	1	0.042	95.97	0.07
810	4/29/1953	3	0.042	96.09	0.07
811	2/25/1966	6	0.042	96.2	0.07
813	8/30/2004	1	0.042	96.44	0.07
813	8/31/1998	1	0.042	96.44	0.07
814	7/18/1999	1	0.041	96.56	0.07
815	4/24/2002	1	0.041	96.68	0.07
816	9/29/2002	1	0.041	96.8	0.07
817	1/20/2003	2	0.04	96.92	0.07
818	5/6/1998	1	0.04	97.03	0.07
819	4/15/2002	1	0.04	97.15	0.07
820	2/17/2000	2	0.04	97.27	0.07
821	3/17/2006	1	0.039	97.39	0.07
822	7/29/1965	1	0.038	97.51	0.07
823	1/25/2000	1	0.037	97.63	0.07
824	5/5/1969	1	0.037	97.75	0.07
825	1/28/2004	1	0.037	97.86	0.07
826	3/31/1958	1	0.037	97.98	0.07
827	2/19/1974	1	0.036	98.1	0.07
828	4/26/2002	1	0.036	98.22	0.07
829	12/16/1967	2	0.036	98.34	0.07
830	10/17/1972	1	0.036	98.46	0.07
831	3/15/1961	1	0.036	98.58	0.07
832	2/7/2005	1	0.035	98.7	0.07
833	1/8/1952	1	0.035	98.81	0.07
834	3/4/1973	1	0.035	98.93	0.07
835	3/20/1953	1	0.034	99.05	0.07
836	2/15/1969	2	0.034	99.17	0.07
837	12/14/1961	2	0.033	99.29	0.07
838	3/29/1962	1	0.033	99.41	0.07
839	11/11/1998	1	0.033	99.53	0.07
840	7/13/1954	1	0.032	99.64	0.07
841	9/19/1952	1	0.031	99.76	0.07
842	12/8/2003	1	0.031	99.88	0.07
843	4/25/1978	1	0.034	99.41	0.07
844	4/26/1994	1	0.032	99.53	0.07
845	3/29/1967	1	0.032	99.65	0.07
846	11/11/1988	1	0.032	99.76	0.07

847	9/16/1978	1	0.032	99.88	0.07
848	4/5/1976	2	0.054	96.15	0.07
849	1/8/1952	1	0.054	96.26	0.07
850	2/17/2000	2	0.052	96.37	0.07
851	4/29/1953	2	0.051	96.49	0.07
852	11/5/1979	1	0.051	96.6	0.07
853	4/24/1960	1	0.05	96.71	0.07
854	3/17/2006	12	0.05	96.83	0.07
855	9/18/1999	1	0.049	96.94	0.07
856	3/21/1973	1	0.047	97.05	0.07
857	3/29/1962	1	0.047	97.17	0.07
858	3/31/1958	1	0.046	97.28	0.07
859	4/21/1953	1	0.045	97.39	0.07
860	12/14/1961	2	0.045	97.51	0.07
861	2/15/1969	2	0.045	97.62	0.07
862	12/16/1967	2	0.044	97.73	0.07
863	3/4/1973	1	0.042	97.85	0.07
864	2/10/1984	1	0.042	97.96	0.07
865	4/13/1998	1	0.042	98.07	0.07
866	10/16/1963	2	0.041	98.19	0.07
867	11/11/1998	1	0.04	98.3	0.07
868	3/20/1953	1	0.038	98.41	0.07
870	12/16/1995	1	0.038	98.64	0.07
870	1/19/1996	1	0.038	98.64	0.07
871	2/25/2005	1	0.036	98.75	0.07
873	2/15/1987	1	0.036	98.98	0.07
873	11/18/1994	1	0.036	98.98	0.07
874	1/31/2000	1	0.035	99.09	0.07
875	1/28/2005	1	0.035	99.21	0.07
876	4/25/1978	1	0.034	99.32	0.07
877	4/26/1994	1	0.032	99.43	0.07
878	11/11/1988	1	0.032	99.55	0.07
879	2/28/1969	1	0.032	99.66	0.07
880	3/29/1967	1	0.032	99.77	0.07
881	2/7/1999	1	0.032	99.89	0.07
882	7/29/1965	2	0.106	78.19	0.07
883	2/26/1993	5	0.105	78.28	0.07
884	12/2/1960	22	0.105	78.37	0.07
885	4/20/2001	14	0.104	78.46	0.07
886	12/7/2003	16	0.103	78.55	0.07
887	1/29/2008	2	0.102	78.63	0.07
888	12/22/2006	2	0.102	78.72	0.07
889	1/28/2005	2	0.102	78.81	0.07
891	12/29/2002	3	0.101	78.99	0.07
891	1/20/2003	3	0.101	78.99	0.07
892	12/4/1955	7	0.099	79.08	0.07
893	2/13/2007	16	0.099	79.17	0.06
894	11/4/1957	8	0.097	79.26	0.06
895	7/13/1954	2	0.096	79.34	0.06
896	12/3/1992	24	0.095	79.43	0.06
897	10/2/1996	21	0.095	79.52	0.06
898	3/15/1999	2	0.094	79.61	0.06
899	1/30/1967	9	0.093	79.7	0.06
900	1/11/1970	17	0.091	79.79	0.06
901	9/6/1972	6	0.09	79.88	0.06
902	11/12/1971	3	0.09	79.96	0.06
903	12/13/1994	3	0.089	80.05	0.06
904	9/22/2007	4	0.089	80.14	0.06
905	3/18/2005	32	0.088	80.23	0.06
906	1/9/1974	4	0.088	80.32	0.06
907	11/21/1955	7	0.085	80.41	0.06
908	1/24/1957	18	0.085	80.5	0.06
910	8/30/2004	1	0.084	80.67	0.06
910	8/31/1998	1	0.084	80.67	0.06
911	2/9/1999	3	0.084	80.76	0.06
912	11/16/2003	9	0.084	80.85	0.06
913	11/16/1994	3	0.084	80.94	0.06
914	7/18/1999	1	0.083	81.03	0.06
915	5/5/1969	25	0.082	81.12	0.06
916	12/1/1955	6	0.078	81.21	0.06
917	1/2/1971	5	0.077	81.29	0.06
918	4/10/1956	23	0.076	81.38	0.06
919	11/13/1951	3	0.073	81.47	0.06
920	11/8/1972	4	0.073	81.56	0.06
921	12/18/1962	2	0.072	81.65	0.06
922	1/20/1956	9	0.071	81.74	0.06
923	10/7/1975	4	0.069	81.83	0.06
924	11/1/1995	16	0.069	81.91	0.06
925	2/20/1994	20	0.069	82	0.06
926	10/23/1956	2	0.068	82.09	0.06
927	1/28/2002	29	0.066	82.18	0.06
928	4/14/1963	1	0.065	82.27	0.06
929	1/13/1953	6	0.062	82.36	0.06
930	12/20/1968	3	0.062	82.45	0.06
931	3/22/2003	3	0.061	82.54	0.06
932	4/1/1964	8	0.061	82.62	0.06
933	4/8/1963	4	0.06	82.71	0.06
934	12/6/1955	4	0.06	82.8	0.06
935	5/23/2008	7	0.06	82.89	0.06
936	1/28/2004	6	0.059	82.98	0.06
937	12/2/1951	2	0.058	83.07	0.06
938	11/20/1953	2	0.056	83.16	0.06
940	3/17/2006	14	0.056	83.33	0.06
940	10/23/1992	3	0.056	83.33	0.06
941	2/14/1975	5	0.054	83.42	0.06

943	7/16/1995	2	0.054	83.6	0.06
943	6/15/1962	3	0.054	83.6	0.06
944	2/25/1966	5	0.054	83.69	0.06
945	9/19/1952	2	0.053	83.78	0.06
946	1/7/1952	32	0.053	83.87	0.06
947	5/20/2002	1	0.049	83.95	0.06
948	11/16/1957	22	0.049	84.04	0.06
949	12/4/1998	27	0.049	84.13	0.06
950	3/2/1966	3	0.049	84.22	0.06
951	11/3/1957	2	0.047	84.31	0.06
952	3/29/1962	2	0.046	84.4	0.06
953	4/15/1957	3	0.044	84.49	0.06
954	4/28/1952	5	0.044	84.57	0.06
955	2/7/2005	5	0.043	84.66	0.06
956	10/18/1963	24	0.043	84.75	0.06
957	3/30/1958	1	0.043	84.84	0.06
958	3/4/1973	1	0.043	84.93	0.06
959	11/1/1959	2	0.042	85.02	0.06
960	11/15/1969	11	0.041	85.11	0.06
961	3/7/1999	4	0.038	85.2	0.06
962	6/9/1964	6	0.036	85.28	0.06
963	4/18/1955	1	0.035	85.37	0.06
964	3/2/1958	1	0.034	85.46	0.06
965	10/30/1975	1	0.034	85.55	0.06
966	4/15/1998	3	0.034	85.64	0.06
967	4/21/1953	1	0.034	85.73	0.06
968	4/21/1970	1	0.033	85.82	0.06
971	9/29/1959	1	0.033	86.08	0.06
971	4/1/1956	1	0.033	86.08	0.06
971	4/25/1952	1	0.033	86.08	0.06
972	4/26/2002	5	0.032	86.17	0.06
973	2/26/1962	3	0.032	86.26	0.06
976	5/7/1961	1	0.032	86.52	0.06
976	5/17/1956	1	0.032	86.52	0.06
976	5/17/1964	1	0.032	86.52	0.06
977	1/13/1998	2	0.032	86.61	0.06
978	6/6/1972	1	0.032	86.7	0.06
979	1/19/1998	2	0.032	86.79	0.06
980	12/14/2001	2	0.032	86.88	0.06
981	12/30/2001	2	0.032	86.97	0.06
982	2/27/1997	6	0.03	87.06	0.06
983	5/13/1995	3	0.03	87.15	0.06
984	4/28/1954	2	0.029	87.23	0.06
985	1/31/2000	2	0.029	87.32	0.06
986	10/30/1968	13	0.029	87.41	0.06
987	12/2/1971	3	0.029	87.5	0.06
988	2/16/2000	26	0.028	87.59	0.06
989	11/29/2002	2	0.028	87.68	0.06
990	3/21/1973	1	0.028	87.77	0.06
991	2/28/1969	1	0.028	87.85	0.06
992	1/24/2001	15	0.027	87.94	0.06
993	1/19/1996	1	0.027	88.03	0.06
994	12/16/1995	1	0.027	88.12	0.06
995	12/31/1996	1	0.027	88.21	0.06
996	12/11/1992	1	0.027	88.3	0.06
997	12/19/1993	1	0.027	88.39	0.06
998	1/25/2004	1	0.027	88.48	0.06
1003	12/17/2003	1	0.027	88.92	0.06
1003	12/22/1994	1	0.027	88.92	0.06
1003	1/19/2004	1	0.027	88.92	0.06
1003	1/30/2006	1	0.027	88.92	0.06
1003	12/10/1999	1	0.027	88.92	0.06
1004	11/11/1998	12	0.027	89.01	0.06
1005	11/3/2003	7	0.027	89.1	0.06
1007	2/15/1987	1	0.027	89.27	0.06
1007	11/18/1994	1	0.027	89.27	0.06
1008	2/25/2005	1	0.027	89.36	0.06
1009	2/1/2006	1	0.027	89.45	0.06
1010	2/7/1999	1	0.027	89.54	0.06
1011	2/18/1987	1	0.027	89.63	0.06
1012	11/2/1974	1	0.027	89.72	0.06
1013	11/12/2004	1	0.027	89.8	0.06
1018	11/29/2004	1	0.026	90.25	0.06
1018	11/22/1992	1	0.026	90.25	0.06
1018	11/12/1993	1	0.026	90.25	0.06
1018	11/1/1993	1	0.026	90.25	0.06
1018	11/8/2004	1	0.026	90.25	0.06
1019	8/13/1992	3	0.026	90.34	0.06
1020	10/23/1960	1	0.026	90.43	0.06
1021	10/6/2000	1	0.026	90.51	0.06
1022	10/11/2000	1	0.026	90.6	0.06
1031	3/4/1999	1	0.026	91.4	0.06
1031	10/16/1993	1	0.026	91.4	0.06
1031	3/27/2007	1	0.026	91.4	0.06
1031	3/21/2007	1	0.026	91.4	0.06
1031	3/24/1961	2	0.026	91.4	0.06
1031	10/4/2000	1	0.026	91.4	0.06
1031	3/6/1975	1	0.026	91.4	0.06
1031	10/4/1994	1	0.026	91.4	0.06
1031	10/25/2005	1	0.026	91.4	0.06
1032	4/13/1998	1	0.025	91.49	0.06
1033	4/7/1998	1	0.025	91.58	0.06
1034	4/2/1974	1	0.025	91.67	0.06
1035	3/9/1957	4	0.025	91.76	0.06
1036	12/14/1961	4	0.025	91.84	0.06

1037	12/16/1967	14	0.025	91.93	0.06
1038	4/25/1994	48	0.025	92.02	0.06
1039	9/3/1998	6	0.025	92.11	0.06
1040	4/8/1999	1	0.025	92.2	0.06
1041	9/21/1999	1	0.024	92.29	0.06
1042	4/1/2006	1	0.024	92.38	0.06
1043	4/21/2000	1	0.024	92.46	0.06
1044	9/28/2007	1	0.024	92.55	0.06
1050	4/14/2000	1	0.024	93.09	0.06
1050	4/24/2005	1	0.024	93.09	0.06
1050	9/7/2000	1	0.024	93.09	0.06
1050	4/2/1996	1	0.024	93.09	0.06
1050	9/26/1998	1	0.024	93.09	0.06
1050	9/3/1972	1	0.024	93.09	0.06
1051	5/3/1960	6	0.024	93.17	0.06
1052	2/15/1969	8	0.024	93.26	0.06
1053	5/15/1994	1	0.024	93.35	0.06
1054	5/11/1994	1	0.024	93.44	0.06
1055	5/27/2006	1	0.024	93.53	0.05
1059	5/23/1999	1	0.024	93.88	0.05
1059	5/29/2001	1	0.024	93.88	0.05
1059	5/8/1994	1	0.024	93.88	0.05
1059	5/12/1968	1	0.024	93.88	0.05
1061	8/20/2003	1	0.023	94.06	0.05
1061	8/4/2006	1	0.023	94.06	0.05
1062	7/5/1999	1	0.023	94.15	0.05
1063	6/19/2004	1	0.023	94.24	0.05
1065	7/30/2003	1	0.023	94.41	0.05
1065	7/21/1959	1	0.023	94.41	0.05
1066	1/20/1974	7	0.022	94.5	0.05
1067	1/1/2000	1	0.021	94.59	0.05
1068	1/14/1964	4	0.021	94.68	0.05
1069	1/31/1969	1	0.021	94.77	0.05
1070	1/6/1955	1	0.021	94.86	0.05
1071	1/30/1973	1	0.021	94.95	0.05
1072	3/4/1961	5	0.02	95.04	0.05
1073	2/27/2000	25	0.02	95.12	0.05
1074	4/29/1953	2	0.02	95.21	0.05
1075	12/8/1960	2	0.019	95.3	0.05
1077	1/25/2002	1	0.019	95.48	0.05
1077	1/4/1973	1	0.019	95.48	0.05
1078	3/10/1970	1	0.019	95.57	0.05
1079	2/10/1966	1	0.018	95.66	0.05
1080	11/4/1968	1	0.018	95.74	0.05
1081	11/30/1968	1	0.018	95.83	0.05
1082	5/6/1971	1	0.018	95.92	0.05
1083	3/23/2002	19	0.018	96.01	0.05
1084	3/7/2002	15	0.017	96.1	0.05
1085	10/5/1951	1	0.017	96.19	0.05
1086	6/1/1963	2	0.017	96.28	0.05
1087	3/1/2002	5	0.017	96.37	0.05
1088	3/2/1962	1	0.017	96.45	0.05
1089	3/13/1968	1	0.017	96.54	0.05
1090	9/20/2002	1	0.017	96.63	0.05
1092	10/27/1959	2	0.017	96.81	0.05
1092	10/14/1962	1	0.017	96.81	0.05
1093	6/13/1967	1	0.017	96.9	0.05
1094	9/28/1951	1	0.017	96.99	0.05
1095	5/7/2003	1	0.016	97.07	0.05
1096	4/28/1967	23	0.016	97.16	0.05
1097	4/24/1967	1	0.016	97.25	0.05
1098	4/21/1963	2	0.016	97.34	0.05
1099	5/19/1972	20	0.016	97.43	0.05
1100	5/20/1975	7	0.016	97.52	0.05
1101	5/29/1971	1	0.016	97.61	0.05
1102	6/16/1998	1	0.015	97.7	0.05
1104	6/23/2003	1	0.015	97.87	0.05
1104	6/12/1998	1	0.015	97.87	0.05
1105	8/31/1967	1	0.015	97.96	0.05
1106	6/17/1975	1	0.015	98.05	0.05
1108	6/23/1960	1	0.015	98.23	0.05
1108	7/28/1968	1	0.015	98.23	0.05
1109	11/5/1957	2	0.014	98.32	0.05
1110	11/30/1961	2	0.014	98.4	0.05
1111	1/31/1963	3	0.013	98.49	0.05
1112	1/14/1970	1	0.013	98.58	0.05
1114	12/23/1964	1	0.013	98.76	0.05
1114	1/16/2000	1	0.013	98.76	0.05
1115	3/17/1962	2	0.013	98.85	0.05
1117	3/4/1967	1	0.013	99.02	0.05
1117	10/4/1956	1	0.013	99.02	0.05
1118	2/10/2001	1	0.012	99.11	0.05
1119	10/3/1951	1	0.011	99.2	0.05
1120	1/23/1956	5	0.011	99.29	0.05
1121	2/12/1962	1	0.01	99.38	0.05
1122	11/12/1964	1	0.01	99.47	0.05
1123	2/18/1952	1	0.01	99.56	0.05
1124	11/15/1958	1	0.01	99.65	0.05
1127	2/19/1960	1	0.01	99.91	0.05
1127	11/26/1964	1	0.01	99.91	0.05
1127	11/21/1966	1	0.01	99.91	0.05

ATTACHMENT 4 - Elevation vs. Area Curves vs. Discharge Curves to be used in SWMM

Elevation vs. Area

For the portion of the flow diverted in the LID Control to the receiving detention basin, a pond is used to route the hydrographs. The elevation vs area curve in the model is calculated in Excel and imported into the model at a 0.05 ft interval range.

Elevation vs Discharge

The total discharge peak flow is imported from an Excel spreadsheet that calculated the elevation vs discharge of the multiple outlet system.

The orifices have been selected to maximize their size while still restricting flows to conform to the required 10% of the Q2 event flow as mandated in the Final Hydromodification Management Plan by Brown & Caldwell, dated March 2011. While we acknowledge that these orifices are small, to increase the size of these outlets would impact the basins' ability to restrict flows beneath the HMP thresholds, thus preventing the BMP from conformance with HMP requirements.

In order to prevent blockage of the orifices, a debris screen will be fitted to the base invert of the lower orifices located within the detention basin. Regular maintenance of the riser and orifices will be performed to ensure potential blockages are minimized. A detail of the orifice and riser structure is provided in Attachment 5 of this attachment. The stage-storage and stage-discharge calculations have been provided on the following pages.

Elevation vs. Area Curve

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
0.05	9176	0.211	456.9
0.1	9253	0.212	917.6
0.15	9329	0.214	1382.2
0.2	9405	0.216	1850.5
0.25	9481	0.218	2322.7
0.3	9558	0.219	2798.6
0.35	9634	0.221	3278.4
0.4	9710	0.223	3762.0
0.45	9786	0.225	4249.4
0.5	9863	0.226	4740.6
0.55	9939	0.228	5235.7
0.6	10015	0.230	5734.5
0.65	10091	0.232	6237.2
0.7	10168	0.233	6743.6
0.75	10244	0.235	7253.9
0.8	10320	0.237	7768.0
0.85	10396	0.239	8285.9
0.9	10473	0.240	8807.6
0.95	10549	0.242	9333.2
1	10625	0.244	9862.5
1.05	10704	0.246	10395.7
1.1	10782	0.248	10932.9
1.15	10861	0.249	11474.0
1.2	10940	0.251	12019.0
1.25	11019	0.253	12567.9
1.3	11097	0.255	13120.8
1.35	11176	0.257	13677.7
1.4	11255	0.258	14238.4
1.45	11333	0.260	14803.1
1.5	11412	0.262	15371.8
1.55	11491	0.264	15944.3
1.6	11569	0.266	16520.8
1.65	11648	0.267	17101.3
1.7	11727	0.269	17685.6
1.75	11806	0.271	18273.9
1.8	11884	0.273	18866.2
1.85	11963	0.275	19462.4
1.9	12042	0.276	20062.5
1.95	12120	0.278	20666.5
2	12199	0.280	21274.5
2.05	12281	0.282	21886.5
2.1	12362	0.284	22502.6
2.15	12444	0.286	23122.7
2.2	12525	0.288	23746.9

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
2.25	12607	0.289	24375.2
2.3	12688	0.291	25007.6
2.35	12770	0.293	25644.0
2.4	12851	0.295	26284.6
2.45	12933	0.297	26929.2
2.5	13015	0.299	27577.9
2.55	13096	0.301	28230.6
2.6	13178	0.303	28887.5
2.65	13259	0.304	29548.4
2.7	13341	0.306	30213.4
2.75	13422	0.308	30882.5
2.8	13504	0.310	31555.6
2.85	13585	0.312	32232.8
2.9	13667	0.314	32914.2
2.95	13748	0.316	33599.5
3	13830	0.317	34289.0
3.05	13915	0.319	34982.6
3.1	13999	0.321	35680.5
3.15	14084	0.323	36382.5
3.2	14168	0.325	37088.8
3.25	14253	0.327	37799.3
3.3	14337	0.329	38514.1
3.35	14422	0.331	39233.0
3.4	14506	0.333	39956.2
3.45	14591	0.335	40683.6
3.5	14675	0.337	41415.3
3.55	14760	0.339	42151.1
3.6	14844	0.341	42891.2
3.65	14929	0.343	43635.5
3.7	15013	0.345	44384.1
3.75	15098	0.347	45136.8
3.8	15182	0.349	45893.8
3.85	15267	0.350	46655.0
3.9	15351	0.352	47420.5
3.95	15436	0.354	48190.1
4	15520	0.356	48964.0
4.05	15607	0.358	49742.2
4.1	15695	0.360	50524.7
4.15	15782	0.362	51311.7
4.2	15869	0.364	52102.9
4.25	15957	0.366	52898.6
4.3	16044	0.368	53698.6
4.35	16131	0.370	54503.0
4.4	16219	0.372	55311.8

depth	area	area (ac)	volume (cf)
0	9100	0.209	0
4.45	16306	0.374	56124.9
4.5	16394	0.376	56942.4
4.55	16481	0.378	57764.2
4.6	16568	0.380	58590.5
4.65	16656	0.382	59421.1
4.7	16743	0.384	60256.0
4.75	16830	0.386	61095.3
4.8	16918	0.388	61939.0
4.85	17005	0.390	62787.1
4.9	17092	0.392	63639.5
4.95	17180	0.394	64496.3
5	17267	0.396	65357.5
5.05	17356	0.398	66223.1
5.1	17446	0.400	67093.1
5.15	17535	0.403	67967.6
5.2	17624	0.405	68846.6
5.25	17713	0.407	69730.0
5.3	17803	0.409	70617.9
5.35	17892	0.411	71510.3
5.4	17981	0.413	72407.1
5.45	18070	0.415	73308.4
5.5	18160	0.417	74214.1
5.55	18249	0.419	75124.3
5.6	18338	0.421	76039.0
5.65	18427	0.423	76958.1
5.7	18517	0.425	77881.7
5.75	18606	0.427	78809.8
5.8	18695	0.429	79742.3
5.85	18784	0.431	80679.3
5.9	18874	0.433	81620.7
5.95	18963	0.435	82566.6
6	19052	0.437	83517.0

Basin BF-1-1

Discharge vs Elevation Table

Bottom orifice diameter:	1.5 "	Top orifice diameter:	3 "
Number:	1	Number:	2
Cg-low:	0.61	Cg-low:	0.61
invert elev:	0.50 ft	invert elev:	3.50 ft
Middle orifice diameter:	2 "	Emergency weir:	
number of orif:	1	Invert:	4.50 ft
Cg-middle:	0.61	Weir Length (ft)	10.0 ft
invert elev:	1.50 ft		

h (ft)	H/D-low -	H/D-mid -	H/D-top -	H/D-peak -	Qlow-orif (cfs)	Qlow-weir (cfs)	Qtot-low (cfs)	Qmid-orif (cfs)	Qmid-weir (cfs)	Qtot-med (cfs)	Qtop-orif (cfs)	Qtop-weir (cfs)	Qtot-top (cfs)	Qpeak-top (cfs)	Qtot (cfs)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
0.55	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0028
0.6	0.80	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0099
0.65	1.20	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0178
0.7	1.60	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0223
0.75	2.00	0.00	0.00	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0260
0.8	2.40	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0293
0.85	2.80	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0322
0.9	3.20	0.00	0.00	0.00	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0349
0.95	3.60	0.00	0.00	0.00	0.04	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0374
1	4.00	0.00	0.00	0.00	0.04	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0397
1.05	4.40	0.00	0.00	0.00	0.04	0.11	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0419
1.1	4.80	0.00	0.00	0.00	0.04	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0440
1.15	5.20	0.00	0.00	0.00	0.05	0.35	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0460
1.2	5.60	0.00	0.00	0.00	0.05	0.59	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0480
1.25	6.00	0.00	0.00	0.00	0.05	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0498
1.3	6.40	0.00	0.00	0.00	0.05	1.47	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0516
1.35	6.80	0.00	0.00	0.00	0.05	2.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0533
1.4	7.20	0.00	0.00	0.00	0.05	3.18	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0550
1.45	7.60	0.00	0.00	0.00	0.06	4.49	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0566
1.5	8.00	0.00	0.00	0.00	0.06	6.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0582
1.55	8.40	0.30	0.00	0.00	0.06	8.34	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0630
1.6	8.80	0.60	0.00	0.00	0.06	11.06	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.0733
1.65	9.20	0.90	0.00	0.00	0.06	14.44	0.06	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.0874
1.7	9.60	1.20	0.00	0.00	0.06	18.58	0.06	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.1005
1.75	10.00	1.50	0.00	0.00	0.07	23.61	0.07	0.04	0.05	0.04	0.00	0.00	0.00	0.00	0.1091
1.8	10.40	1.80	0.00	0.00	0.07	29.65	0.07	0.05	0.06	0.05	0.00	0.00	0.00	0.00	0.1165
1.85	10.80	2.10	0.00	0.00	0.07	36.86	0.07	0.06	0.07	0.06	0.00	0.00	0.00	0.00	0.1233
1.9	11.20	2.40	0.00	0.00	0.07	45.39	0.07	0.06	0.08	0.06	0.00	0.00	0.00	0.00	0.1296
1.95	11.60	2.70	0.00	0.00	0.07	55.41	0.07	0.06	0.08	0.06	0.00	0.00	0.00	0.00	0.1354
2	12.00	3.00	0.00	0.00	0.07	67.11	0.07	0.07	0.08	0.07	0.00	0.00	0.00	0.00	0.1410
2.05	12.40	3.30	0.00	0.00	0.07	80.69	0.07	0.07	0.08	0.07	0.00	0.00	0.00	0.00	0.1462
2.1	12.80	3.60	0.00	0.00	0.07	96.36	0.07	0.08	0.09	0.08	0.00	0.00	0.00	0.00	0.1513
2.15	13.20	3.90	0.00	0.00	0.08	114.36	0.08	0.08	0.12	0.08	0.00	0.00	0.00	0.00	0.1561
2.2	13.60	4.20	0.00	0.00	0.08	134.92	0.08	0.08	0.17	0.08	0.00	0.00	0.00	0.00	0.1607
2.25	14.00	4.50	0.00	0.00	0.08	158.32	0.08	0.09	0.26	0.09	0.00	0.00	0.00	0.00	0.1652
2.3	14.40	4.80	0.00	0.00	0.08	184.84	0.08	0.09	0.41	0.09	0.00	0.00	0.00	0.00	0.1696
2.35	14.80	5.10	0.00	0.00	0.08	214.77	0.08	0.09	0.62	0.09	0.00	0.00	0.00	0.00	0.1738
2.4	15.20	5.40	0.00	0.00	0.08	248.43	0.08	0.10	0.93	0.10	0.00	0.00	0.00	0.00	0.1779
2.45	15.60	5.70	0.00	0.00	0.08	286.15	0.08	0.10	1.36	0.10	0.00	0.00	0.00	0.00	0.1820
2.5	16.00	6.00	0.00	0.00	0.08	328.30	0.08	0.10	1.94	0.10	0.00	0.00	0.00	0.00	0.1859
2.55	16.40	6.30	0.00	0.00	0.08	375.25	0.08	0.11	2.71	0.11	0.00	0.00	0.00	0.00	0.1897
2.6	16.80	6.60	0.00	0.00	0.09	427.39	0.09	0.11	3.70	0.11	0.00	0.00	0.00	0.00	0.1934
2.65	17.20	6.90	0.00	0.00	0.09	485.14	0.09	0.11	4.96	0.11	0.00	0.00	0.00	0.00	0.1971
2.7	17.60	7.20	0.00	0.00	0.09	548.94	0.09	0.11	6.53	0.11	0.00	0.00	0.00	0.00	0.2007
2.75	18.00	7.50	0.00	0.00	0.09	619.25	0.09	0.12	8.47	0.12	0.00	0.00	0.00	0.00	0.2042
2.8	18.40	7.80	0.00	0.00	0.09	696.55	0.09	0.12	10.84	0.12	0.00	0.00	0.00	0.00	0.2077
2.85	18.80	8.10	0.00	0.00	0.09	781.35	0.09	0.12	13.70	0.12	0.00	0.00	0.00	0.00	0.2111
2.9	19.20	8.40	0.00	0.00	0.09	874.19	0.09	0.12	17.13	0.12	0.00	0.00	0.00	0.00	0.2144
2.95	19.60	8.70	0.00	0.00	0.09	975.61	0.09	0.12	21.20	0.12	0.00	0.00	0.00	0.00	0.2177
3	20.00	9.00	0.00	0.00	0.09	1086.19	0.09	0.13	26.00	0.13	0.00	0.00	0.00	0.00	0.2209
3.05	20.40	9.30	0.00	0.00	0.09	1206.55	0.09	0.13	31.61	0.13	0.00	0.00	0.00	0.00	0.2241
3.1	20.80	9.60	0.00	0.00	0.10	1337.31	0.10	0.13	38.14	0.13	0.00	0.00	0.00	0.00	0.2272
3.15	21.20	9.90	0.00	0.00	0.10	1479.13	0.10	0.13	45.70	0.13	0.00	0.00	0.00	0.00	0.2303
3.2	21.60	10.20	0.00	0.00	0.10	1632.69	0.10	0.14	54.39	0.14	0.00	0.00	0.00	0.00	0.2334
3.25	22.00	10.50	0.00	0.00	0.10	1798.71	0.10	0.14	64.34	0.14	0.00	0.00	0.00	0.00	0.2364
3.3	22.40	10.80	0.00	0.00	0.10	1977.93	0.10	0.14	75.67	0.14	0.00	0.00	0.00	0.00	0.2393
3.35	22.80	11.10	0.00	0.00	0.10	2171.11	0.10	0.14	88.53	0.14	0.00	0.00	0.00	0.00	0.2422
3.4	23.20	11.40	0.00	0.00	0.10	2379.06	0.10	0.14	103.06	0.14	0.00	0.00	0.00	0.00	0.2451
3.45	23.60	11.70	0.00	0.00	0.10	2602.61	0.10	0.15	119.42	0.15	0.00	0.00	0.00	0.00	0.2480
3.5	24.00	12.00	0.00	0.00	0.10	2842.60	0.10	0.15	137.77	0.15	0.00	0.00	0.00	0.00	0.2508
3.55	24.40	12.30	0.20	0.00	0.10	3099.94	0.10	0.15	158.29	0.15	0.00	0.01	0.01	0.00	0.2619
3.6	24.80	12.60	0.40	0.00	0.10	3375.54	0.10	0.15	181.17	0.15	0.00	0.03	0.03	0.00	0.2879
3.65	25.20	12.90	0.60	0.00	0.11	3670.36	0.11	0.15	206.59	0.15	0.08	0.07	0.07	0.00	0.3261
3.7	25.60	13.20	0.80	0.00	0.11	3985.37	0.11	0.16	234.76	0.16	0.13	0.11	0.11	0.00	0.3735
3.75	26.00	13.50	1.00	0.00	0.11	4321.61	0.11	0.16	265.90	0.16	0.17	0.16	0.16	0.00	0.4268
3.8	26.40	13.80	1.20	0.00	0.11	4680.11	0.11	0.16	300.23	0.16	0.20	0.22	0.20	0.00	0.4681
3.85	26.80	14.10	1.40	0.00	0.11	5061.97	0.11	0.16	337.99	0.16	0.23	0.27	0.23	0.00	0.4977
3.9	27.20	14.40	1.60	0.00	0.11	5468.31	0.11	0.16	379.44	0.16	0.25	0.32	0.25	0.00	0.5243

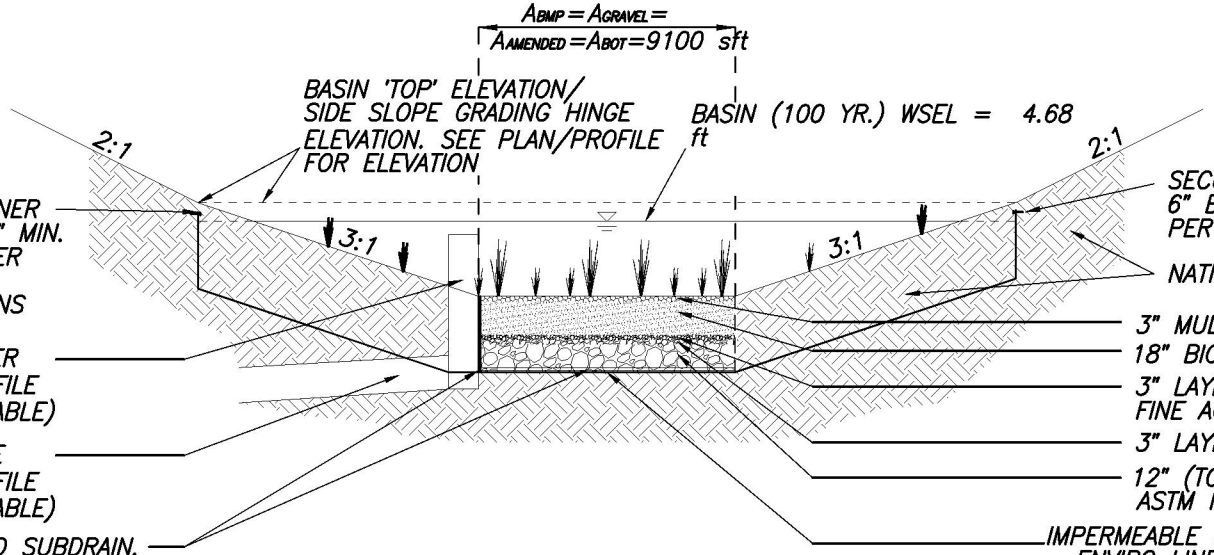
Basin BF-1-1

Discharge vs Elevation Table

Bottom orifice diameter:	1.5 "	Top orifice diameter:	3 "
Number:	1	Number:	2
Cg-low:	0.61	Cg-low:	0.61
invert elev:	0.50 ft	invert elev:	3.50 ft
Middle orifice diameter:	2 "	Emergency weir:	
number of orif:	1	Invert:	4.50 ft
Cg-middle:	0.61	Weir Length (ft)	10.0 ft
invert elev:	1.50 ft		

h (ft)	H/D-low -	H/D-mid -	H/D-top -	H/D-peak -	Qlow-orif (cfs)	Qlow-weir (cfs)	Qtot-low (cfs)	Qmid-orif (cfs)	Qmid-weir (cfs)	Qtot-med (cfs)	Qtop-orif (cfs)	Qtop-weir (cfs)	Qtot-top (cfs)	Qpeak-top (cfs)	Qtot (cfs)
3.95	27.60	14.70	1.80	0.00	0.11	5900.28	0.11	0.16	424.82	0.16	0.27	0.36	0.27	0.00	0.5488
4	28.00	15.00	2.00	0.00	0.11	6359.08	0.11	0.17	474.42	0.17	0.29	0.39	0.29	0.00	0.5717
4.05	28.40	15.30	2.20	0.00	0.11	6845.93	0.11	0.17	528.52	0.17	0.31	0.42	0.31	0.00	0.5932
4.1	28.80	15.60	2.40	0.00	0.11	7362.10	0.11	0.17	587.42	0.17	0.33	0.43	0.33	0.00	0.6136
4.15	29.20	15.90	2.60	0.00	0.11	7908.88	0.11	0.17	651.41	0.17	0.35	0.44	0.35	0.00	0.6331
4.2	29.60	16.20	2.80	0.00	0.11	8487.63	0.11	0.17	720.84	0.17	0.36	0.44	0.36	0.00	0.6518
4.25	30.00	16.50	3.00	0.00	0.12	9099.71	0.12	0.17	796.03	0.17	0.38	0.44	0.38	0.00	0.6697
4.3	30.40	16.80	3.20	0.00	0.12	9746.55	0.12	0.18	877.34	0.18	0.39	0.45	0.39	0.00	0.6870
4.35	30.80	17.10	3.40	0.00	0.12	10429.61	0.12	0.18	965.12	0.18	0.41	0.47	0.41	0.00	0.7038
4.4	31.20	17.40	3.60	0.00	0.12	11150.37	0.12	0.18	1059.76	0.18	0.42	0.52	0.42	0.00	0.7200
4.45	31.60	17.70	3.80	0.00	0.12	11910.39	0.12	0.18	1161.65	0.18	0.44	0.60	0.44	0.00	0.7358
4.5	32.00	18.00	4.00	0.00	0.12	12711.23	0.12	0.18	1271.19	0.18	0.45	0.74	0.45	0.00	0.7511
4.55	32.40	18.30	4.20	0.06	0.12	13554.52	0.12	0.18	1388.80	0.18	0.46	0.95	0.46	0.37	1.1384
4.6	32.80	18.60	4.40	0.12	0.12	14441.92	0.12	0.19	1514.93	0.19	0.47	1.25	0.47	1.05	1.8338
4.65	33.20	18.90	4.60	0.18	0.12	15375.13	0.12	0.19	1650.01	0.19	0.49	1.67	0.49	1.93	2.7296
4.7	33.60	19.20	4.80	0.24	0.12	16355.92	0.12	0.19	1794.53	0.19	0.50	2.23	0.50	2.98	3.7875
4.75	34.00	19.50	5.00	0.30	0.12	17386.06	0.12	0.19	1948.96	0.19	0.51	2.98	0.51	4.16	4.9852
4.8	34.40	19.80	5.20	0.36	0.12	18467.40	0.12	0.19	2113.80	0.19	0.52	3.93	0.52	5.47	6.3079
4.85	34.80	20.10	5.40	0.42	0.12	19601.82	0.12	0.19	2289.57	0.19	0.53	5.14	0.53	6.90	7.7445
4.9	35.20	20.40	5.60	0.48	0.13	20791.25	0.13	0.19	2476.80	0.19	0.54	6.64	0.54	8.42	9.2866
4.95	35.60	20.70	5.80	0.54	0.13	22037.66	0.13	0.20	2676.05	0.20	0.55	8.48	0.55	10.05	10.9272
5	36.00	21.00	6.00	0.60	0.13	23343.08	0.13	0.20	2887.86	0.20	0.56	10.72	0.56	11.77	12.6608
5.05	36.40	21.30	6.20	0.66	0.13	24709.57	0.13	0.20	3112.84	0.20	0.57	13.41	0.57	13.58	14.4826
5.1	36.80	21.60	6.40	0.72	0.13	26139.24	0.13	0.20	3351.59	0.20	0.58	16.61	0.58	15.48	16.3884
5.15	37.20	21.90	6.60	0.78	0.13	27634.27	0.13	0.20	3604.71	0.20	0.59	20.39	0.59	17.45	18.3746
5.2	37.60	22.20	6.80	0.84	0.13	29196.86	0.13	0.20	3872.86	0.20	0.60	24.83	0.60	19.50	20.4381
5.25	38.00	22.50	7.00	0.90	0.13	30829.27	0.13	0.20	4156.69	0.20	0.61	30.00	0.61	21.63	22.5762
5.3	38.40	22.80	7.20	0.96	0.13	32533.83	0.13	0.21	4456.87	0.21	0.62	35.98	0.62	23.83	24.7862
5.35	38.80	23.10	7.40	1.02	0.13	34312.88	0.13	0.21	4774.09	0.21	0.63	42.87	0.63	26.10	27.0658
5.4	39.20	23.40	7.60	1.08	0.13	36168.85	0.13	0.21	5109.08	0.21	0.64	50.75	0.64	28.43	29.4131
5.45	39.60	23.70	7.80	1.14	0.13	38104.20	0.13	0.21	5462.57	0.21	0.65	59.73	0.65	30.83	31.8260
5.5	40.00	24.00	8.00	1.20	0.13	40121.45	0.13	0.21	5835.30	0.21	0.66	69.93	0.66	33.30	34.3029
5.55	40.40	24.30	8.20	1.26	0.13	42223.16	0.13	0.21	6228.06	0.21	0.67	81.44	0.67	35.83	36.8421
5.6	40.80	24.60	8.40	1.32	0.13	44411.96	0.13	0.21	6641.63	0.21	0.68	94.40	0.68	38.42	39.4421
5.65	41.20	24.90	8.60	1.38	0.14	46690.52	0.14	0.22	7076.84	0.22	0.68	108.94	0.68	41.07	42.1016
5.7	41.60	25.20	8.80	1.44	0.14	49061.58	0.14	0.22	7534.51	0.22	0.69	125.18	0.69	43.77	44.8191
5.75	42.00	25.50	9.00	1.50	0.14	51527.93	0.14	0.22	8015.51	0.22	0.70	143.28	0.70	46.54	47.5936
5.8	42.40	25.80	9.20	1.56	0.14	54092.39	0.14	0.22	8520.71	0.22	0.71	163.37	0.71	49.36	50.4237
5.85	42.80	26.10	9.40	1.62	0.14	56757.87	0.14	0.22	9051.01	0.22	0.72	185.64	0.72	52.23	53.3086
5.9	43.20	26.40	9.60	1.68	0.14	59527.33	0.14	0.22	9607.34	0.22	0.72	210.22	0.72	55.16	56.2471
5.95	43.60	26.70	9.80	1.74	0.14	62403.77	0.14	0.22	10190.63	0.22	0.73	237.32	0.73	58.14	59.2382
6	44.00	27.00	10.00	1.80	0.14	65390.26	0.14	0.22	10801.86	0.22	0.74	267.10	0.74	61.18	62.2812

BIOFILTRATION BASIN CROSS SECTION



IMPERMEABLE LINER INSTALLED TO 6" MIN. ABOVE WSEL, PER GEOTECHNICAL RECOMMENDATIONS

DISCHARGE RISER PER PLAN/PROFILE (WHERE APPLCIABLE)

DISCHARGE PIPE PER PLAN/PROFILE (WHERE APPLICABLE)

6" PERFORATED SUBDRAIN, ELEVATED 3" ABOVE LINER/GRAVEL INVERT, RUN ALONG BASIN LENGTH AND LUG CONNECTION TO RISER OUTLET STRUCTURE (SEE PLAN FOR TYPICAL LAYOUT)

SECURE LINER WITH NAILS @ 5' O.C., 6" BELOW BASIN 'TOP' ELEVATION, PER MANUFACTURER RECOMMENDATIONS.

NATIVE SOIL/COMPACTED FILL

3" MULCH

18" BIOFILTRATION SOIL MEDIA LAYER*

3" LAYER OF CLEAN AND WASHED ASTM NO. 33 FINE AGGREGATE SAND

3" LAYER OF ASTM NO. 8 STONE

12" (TOTAL, 3" BELOW SUBDRAIN) MIN. LAYER ASTM NO. 57 OPEN GRADED STONE

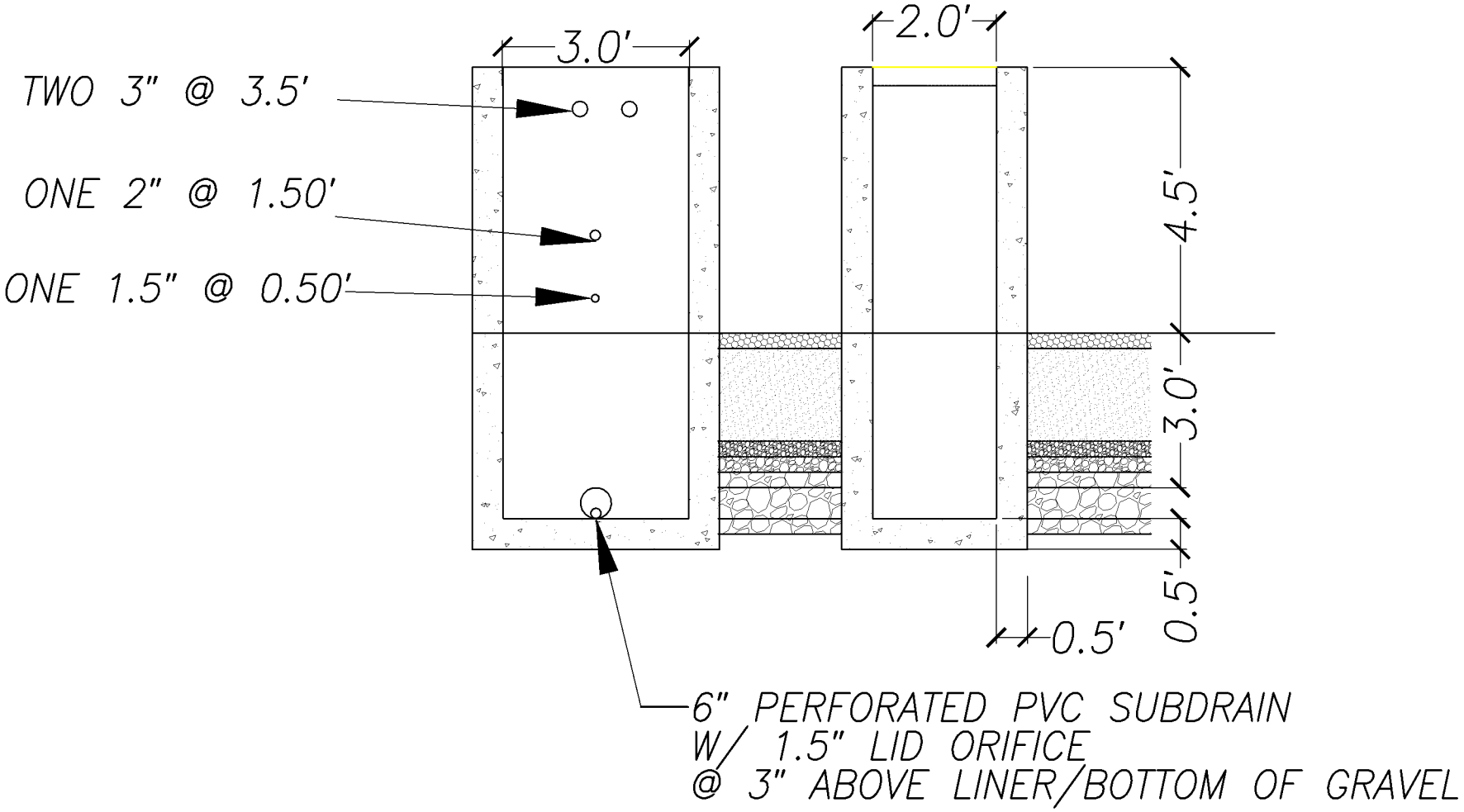
IMPERMEABLE LINER;
- ENVIRO LINER EL 1030, OR EQUIVALENT
- INSTALL AT INTERFACE BETWEEN GRAVEL/NATIVE AND RUN UP NATIVE SIDESLOPES TO HIGH WATER ELEVATION.
- TIE TO STRUCTURES PER MANUFACTURER RECOMMENDATIONS, WHERE APPLICABLE.
- WATERPROOF ALL AREAS LINER IS PENETRATED, WHERE APPLICABLE.

BIORETENTION SOIL MEDIA (BSM):
- 18" MINIMUM THICKNESS.
- 70% TO 85% BY VOLUME WASHED SAND AND 15% TO 30% BY VOLUME COMPOST OR ALTERNATIVE ORGANIC AMENDMENT.
- BSM: THE C:N RATIO OF BSM SHALL BE BETWEEN 15 AND 40 TO REDUCE THE POTENTIAL FOR NITRATE LEACHING.
- MUST MAINTAIN A MINIMUM PERCOLATION RATE OF 5 INCHES PER HOUR THROUGHOUT THE LIFE OF THE FACILITY, AND IT MUST BE SUITABLE FOR MAINTAINING PLANT LIFE.
- FOR ADDITIONAL INFORMATION REFER TO APPENDIX F.3 OF THE CITY OF SAN DIEGO STORM WATER STANDARDS MANUAL.

BIOFILTRATION PLANTING NOTE:
- ALL PLANTING IN 'BIOFILTRATION' AREAS SHALL CONFORM TO APPENDIX 'E' OF THE CITY OF SAN DIEGO LOW IMPACT DESIGN MANUAL.

SOIL SECTION FOR WATER QUALITY/HYDROMODIFICATION BIOFILTRATION BASIN

NOT TO SCALE



PRIVATE BIOFILTRATION BASIN BF-1-1

RISER DETAIL

ATTACHMENT 5 - Bio Retention Cell Details

SWMM Model Flow Coefficient Calculation

Basin BF-1-1			
PARAMETER	ABBREV.	Bio-Retention Cell	
Ponding Depth	PD	6	in
Bioretention Soil Layer	S	24	in
Gravel Layer	G	12	in
TOTAL		3.5	ft
		42	in
Orifice Coefficient	c_g	0.6	--
Low Flow Orifice Diameter	D	1.5	in
Drain (Flow) exponent	n	0.5	--
Flow Rate (volumetric)	Q	0.110	cfs
Ponding Depth Surface Area	A_{PD}	9863	ft^2
Bioretention Surface Area	A_S, A_G	9100	ft^2
	A_S, A_G	0.2089	ac
Porosity of Bioretention Soil	n	1.00	-
Flow Rate (per unit area)	q	0.520	in/hr
Effective Ponding Depth	PD_{eff}	6.25	in
Flow Coefficient	C	0.0810	--

ATTACHMENT 6 - SWMM Input Data (Pre-developed and Proposed Models)

```
[TITLE]
;;Project Title/Notes
 PRE-DEVELOPED

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           08/28/1951
START_TIME           00:00:00
REPORT_START_DATE    08/28/1951
REPORT_START_TIME    00:00:00
END_DATE             05/23/2008
END_TIME             23:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             00:15:00
DRY_STEP             04:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.557
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          0.06   0.08   0.11   0.15   0.17   0.19   0.19   0.18   0.15   0.11   0.08   0.06
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
OCEANSIDE        INTENSITY 1:00     1.0      TIMESERIES OCEANSIDE-RAIN
```

```
[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- -------- ----------------
DMA-1-EX-SoilB   OCEANSIDE        POC1             4.464    0        264      1.67     0
DMA1-EX-SoilD    OCEANSIDE        poc1             10.55    0        390      5.52     0
DMA2-EX-SoilD-offsite OCEANSIDE        poc1             0.66     55.2     115      2.52     0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
DMA-1-EX-SoilB   0.012      0.15       0.05       0.10       25         OUTLET
DMA1-EX-SoilD    0.012      0.15       0.05       0.1        25         OUTLET
DMA2-EX-SoilD-offsite 0.012      0.15       0.05       0.1        25         OUTLET

[INFILTRATION]
;;Subcatchment   Suction    Ksat       IMD
;;-------------- ---------- ---------- ----------
DMA-1-EX-SoilB   3          0.15       0.31
DMA1-EX-SoilD    9          0.01875    0.33
DMA2-EX-SoilD-offsite 9          0.01875    0.33

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
POC1             0          FREE                        NO

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
OCEANSIDE-RAIN   FILE "OCEANSIDE.prn"

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 1196.632 7154.180 2292.457 8209.745
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC1             1081.360           7778.736

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
```

```
[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
DMA-1-EX-SoilB   1081.360           8095.894
DMA1-EX-SoilD    742.183            7992.673
DMA2-EX-SoilD-offsite 1300.769           7996.075

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
OCEANSIDE        1247.258           8085.322
```

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.014)

PRE-DEVELOPED

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Starting Date 08/28/1951 00:00:00
Ending Date 05/23/2008 23:00:00
Antecedent Dry Days 0.0
Report Time Step 01:00:00
Wet Time Step 00:15:00
Dry Time Step 04:00:00

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	881.989	675.250
Evaporation Loss	31.264	23.936
Infiltration Loss	704.154	539.100
Surface Runoff	154.901	118.592
Final Storage	0.001	0.001
Continuity Error (%)	-0.945	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	154.901	50.477
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000

External Outflow	154.901	50.477
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DMA-1-EX-SoilB	675.25	0.00	3.23	652.01	0.00	20.57	20.57	2.49	3.43	0.030
DMA1-EX-SoilD	675.25	0.00	29.89	511.33	0.00	142.64	142.64	40.86	9.98	0.211
DMA2-EX-SoilD-offsite	675.25	0.00	68.78	219.24	321.79	75.36	397.15	7.12	0.77	0.588

Analysis begun on: Wed Mar 22 16:28:20 2023
Analysis ended on: Wed Mar 22 16:28:42 2023
Total elapsed time: 00:00:22

```
[TITLE]
;;Project Title/Notes
PACIFICA SITE-DEVELOPED

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           08/28/1951
START_TIME           00:00:00
REPORT_START_DATE    08/28/1951
REPORT_START_TIME    00:00:00
END_DATE             05/23/2008
END_TIME             23:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             00:15:00
DRY_STEP             04:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.557
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          0.060  0.080  0.11   0.15   0.17   0.19   0.19   0.18   0.15   0.11   0.08   0.06
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
OCEANSIDE        INTENSITY 1:00     1.0      TIMESERIES OCEANSIDE-RAIN
```

[SUBCATCHMENTS]

;;Name	Rain Gage	Outlet	Area	%Imperv	Width	%Slope	CurbLen	SnowPack
DMA-1-SoilB	OCEANSIDE	BF-1-1	3.945	70.52	1718	1	0	
BF-1-1	OCEANSIDE	DIV	0.209	0	47	0.005	0	
BYPASS-soilD	OCEANSIDE	POC1	4.46	0	120	4.03	0	
DMA-1-soildD	OCEANSIDE	bf-1-1	5.60	66.97	2439	1	0	
DMA-1-ex-offsite-soilD	OCEANSIDE	bf-1-1	0.66	55.2	287	2.52	0	
DMA-2-soilb	OCEANSIDE	poc1	0.310	79.78	135	1	0	
DMA-2-SoilD	OCEANSIDE	poc1	0.49	79.78	213	1	0	

[SUBAREAS]

;;Subcatchment	N-Imperv	N-Perv	S-Imperv	S-Perv	PctZero	RouteTo	PctRouted
DMA-1-SoilB	0.012	0.15	0.05	0.10	25	OUTLET	
BF-1-1	0.012	0.15	0.05	0.10	25	OUTLET	
BYPASS-soilD	0.012	0.15	0.05	0.10	25	OUTLET	
DMA-1-soildD	0.012	0.15	0.05	0.10	25	OUTLET	
DMA-1-ex-offsite-soilD	0.012	0.15	0.05	0.10	25	OUTLET	
DMA-2-soilb	0.012	0.15	0.05	0.10	25	OUTLET	
DMA-2-SoilD	0.012	0.15	0.05	0.10	25	OUTLET	

[INFILTRATION]

;;Subcatchment	Suction	Ksat	IMD
DMA-1-SoilB	3	0.15	0.31
BF-1-1	1.5	0.3	0.3
BYPASS-soilD	9	0.025	0.33
DMA-1-soildD	9	0.01875	0.33
DMA-1-ex-offsite-soilD	9	0.01875	0.33
DMA-2-soilb	3	0.15	0.31
DMA-2-SoilD	9	0.01875	0.33

[LID_CONTROLS]

;;Name	Type/Layer	Parameters						
BASIN-BF-1-1	BC							
BASIN-BF-1-1	SURFACE	6.25	0.0	0.1	1.0	5		
BASIN-BF-1-1	SOIL	24	0.4	0.2	0.1	5	5	1.5
BASIN-BF-1-1	STORAGE	12	0.67	0.0	0			
BASIN-BF-1-1	DRAIN	0.2024	0.5	3	6	0	0	

[LID_USAGE]

;;Subcatchment	LID Process	Number	Area	Width	InitSat	FromImp	ToPerv	RptFile	DrainTo	FromPerv
BF-1-1	BASIN-BF-1-1	1	9100	0	0	100	0	*	*	100

[OUTFALLS]

;;Name	Elevation	Type	Stage Data	Gated	Route To

```
POC1             0          FREE                        NO

[DIVIDERS]
;;Name           Elevation  Diverted Link    Type       Parameters
;;-------------- ---------- ---------------- ---------- ----------
DIV              0          BYPASS           CUTOFF     0.11       0          0          0          0

[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Name/Params            N/A      Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ---------- ---------- ---------------------------- -------- -------- -------- --------
BF-1-1-Storage   0        5.5        0          TABULAR    BF-1-1-storage               0        0

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset   OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ---------- ---------- ----------
BYPASS           DIV              BF-1-1-Storage   400        0.013      0          0          0          0
UNDERDRAIN       DIV              POC1             95         0.013      0          0          0          0

[OUTLETS]
;;Name           From Node        To Node          Offset     Type            QTable/Qcoeff    Qexpon     Gated
;;-------------- ---------------- ---------------- ---------- --------------- ---------------- ---------- --------
OUTLET           BF-1-1-Storage   POC1             0          TABULAR/DEPTH   BF-1-1                      NO

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ---------- ---------- ----------
BYPASS           DUMMY        0                0          0          0          1
UNDERDRAIN       DUMMY        0                0          0          0          1

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BF-1-1           Rating     0          0.0000
BF-1-1                      0.05       0.0028
BF-1-1                      0.1        0.0099
BF-1-1                      0.15       0.0178
BF-1-1                      0.2        0.0223
BF-1-1                      0.25       0.0260
BF-1-1                      0.3        0.0293
BF-1-1                      0.35       0.0322
BF-1-1                      0.4        0.0349
BF-1-1                      0.45       0.0374
BF-1-1                      0.5        0.0397
BF-1-1                      0.55       0.0419
BF-1-1                      0.6        0.0440
BF-1-1                      0.65       0.0460
BF-1-1                      0.7        0.0480
BF-1-1                      0.75       0.0498
BF-1-1                      0.8        0.0516
BF-1-1                      0.85       0.0533
BF-1-1                      0.9        0.0550
BF-1-1                      0.95       0.0566
```

BF-1-1	1	0.0582
BF-1-1	1.05	0.0630
BF-1-1	1.1	0.0733
BF-1-1	1.15	0.0874
BF-1-1	1.2	0.1005
BF-1-1	1.25	0.1091
BF-1-1	1.3	0.1165
BF-1-1	1.35	0.1233
BF-1-1	1.4	0.1296
BF-1-1	1.45	0.1354
BF-1-1	1.5	0.1410
BF-1-1	1.55	0.1462
BF-1-1	1.6	0.1513
BF-1-1	1.65	0.1561
BF-1-1	1.7	0.1607
BF-1-1	1.75	0.1652
BF-1-1	1.8	0.1696
BF-1-1	1.85	0.1738
BF-1-1	1.9	0.1779
BF-1-1	1.95	0.1820
BF-1-1	2	0.1859
BF-1-1	2.05	0.1897
BF-1-1	2.1	0.1934
BF-1-1	2.15	0.1971
BF-1-1	2.2	0.2007
BF-1-1	2.25	0.2042
BF-1-1	2.3	0.2077
BF-1-1	2.35	0.2111
BF-1-1	2.4	0.2144
BF-1-1	2.45	0.2177
BF-1-1	2.5	0.2209
BF-1-1	2.55	0.2241
BF-1-1	2.6	0.2272
BF-1-1	2.65	0.2303
BF-1-1	2.7	0.2334
BF-1-1	2.75	0.2364
BF-1-1	2.8	0.2393
BF-1-1	2.85	0.2422
BF-1-1	2.9	0.2451
BF-1-1	2.95	0.2480
BF-1-1	3	0.2508
BF-1-1	3.05	0.2619
BF-1-1	3.1	0.2879
BF-1-1	3.15	0.3261
BF-1-1	3.2	0.3735
BF-1-1	3.25	0.4268
BF-1-1	3.3	0.4681
BF-1-1	3.35	0.4977
BF-1-1	3.4	0.5243
BF-1-1	3.45	0.5488
BF-1-1	3.5	0.5717
BF-1-1	3.55	0.5932

```
BF-1-1                     3.6         0.6136
BF-1-1                     3.65        0.6331
BF-1-1                     3.7         0.6518
BF-1-1                     3.75        0.6697
BF-1-1                     3.8         0.6870
BF-1-1                     3.85        0.7038
BF-1-1                     3.9         0.7200
BF-1-1                     3.95        0.7358
BF-1-1                     4           0.7511
BF-1-1                     4.05        1.1384
BF-1-1                     4.1         1.8338
BF-1-1                     4.15        2.7296
BF-1-1                     4.2         3.7875
BF-1-1                     4.25        4.9852
BF-1-1                     4.3         6.3079
BF-1-1                     4.35        7.7445
BF-1-1                     4.4         9.2866
BF-1-1                     4.45        10.9272
BF-1-1                     4.5         12.6608
BF-1-1                     4.55        14.4826
BF-1-1                     4.6         16.3884
BF-1-1                     4.65        18.3746
BF-1-1                     4.7         20.4381
BF-1-1                     4.75        22.5762
BF-1-1                     4.8         24.7862
BF-1-1                     4.85        27.0658
BF-1-1                     4.9         29.4131
BF-1-1                     4.95        31.8260
BF-1-1                     5           34.3029
BF-1-1                     5.05        36.8421
BF-1-1                     5.1         39.4421
BF-1-1                     5.15        42.1016
BF-1-1                     5.2         44.8191
BF-1-1                     5.25        47.5936
BF-1-1                     5.3         50.4237
BF-1-1                     5.35        53.3086
BF-1-1                     5.4         56.2471
BF-1-1                     5.45        59.2382
BF-1-1                     5.5         62.2812
;
BF-1-1-storage   Storage   0           9863
BF-1-1-storage             0.05        9939
BF-1-1-storage             0.1         10015
BF-1-1-storage             0.15        10091
BF-1-1-storage             0.2         10168
BF-1-1-storage             0.25        10244
BF-1-1-storage             0.3         10320
BF-1-1-storage             0.35        10396
BF-1-1-storage             0.4         10473
BF-1-1-storage             0.45        10549
BF-1-1-storage             0.5         10625
BF-1-1-storage             0.55        10704
```

BF-1-1-storage	0.6	10782
BF-1-1-storage	0.65	10861
BF-1-1-storage	0.7	10940
BF-1-1-storage	0.75	11019
BF-1-1-storage	0.8	11097
BF-1-1-storage	0.85	11176
BF-1-1-storage	0.9	11255
BF-1-1-storage	0.95	11333
BF-1-1-storage	1	11412
BF-1-1-storage	1.05	11491
BF-1-1-storage	1.1	11569
BF-1-1-storage	1.15	11648
BF-1-1-storage	1.2	11727
BF-1-1-storage	1.25	11806
BF-1-1-storage	1.3	11884
BF-1-1-storage	1.35	11963
BF-1-1-storage	1.4	12042
BF-1-1-storage	1.45	12120
BF-1-1-storage	1.5	12199
BF-1-1-storage	1.55	12281
BF-1-1-storage	1.6	12362
BF-1-1-storage	1.65	12444
BF-1-1-storage	1.7	12525
BF-1-1-storage	1.75	12607
BF-1-1-storage	1.8	12688
BF-1-1-storage	1.85	12770
BF-1-1-storage	1.9	12851
BF-1-1-storage	1.95	12933
BF-1-1-storage	2	13015
BF-1-1-storage	2.05	13096
BF-1-1-storage	2.1	13178
BF-1-1-storage	2.15	13259
BF-1-1-storage	2.2	13341
BF-1-1-storage	2.25	13422
BF-1-1-storage	2.3	13504
BF-1-1-storage	2.35	13585
BF-1-1-storage	2.4	13667
BF-1-1-storage	2.45	13748
BF-1-1-storage	2.5	13830
BF-1-1-storage	2.55	13915
BF-1-1-storage	2.6	13999
BF-1-1-storage	2.65	14084
BF-1-1-storage	2.7	14168
BF-1-1-storage	2.75	14253
BF-1-1-storage	2.8	14337
BF-1-1-storage	2.85	14422
BF-1-1-storage	2.9	14506
BF-1-1-storage	2.95	14591
BF-1-1-storage	3	14675
BF-1-1-storage	3.05	14760
BF-1-1-storage	3.1	14844
BF-1-1-storage	3.15	14929

```
BF-1-1-storage              3.2        15013
BF-1-1-storage              3.25       15098
BF-1-1-storage              3.3        15182
BF-1-1-storage              3.35       15267
BF-1-1-storage              3.4        15351
BF-1-1-storage              3.45       15436
BF-1-1-storage              3.5        15520
BF-1-1-storage              3.55       15607
BF-1-1-storage              3.6        15695
BF-1-1-storage              3.65       15782
BF-1-1-storage              3.7        15869
BF-1-1-storage              3.75       15957
BF-1-1-storage              3.8        16044
BF-1-1-storage              3.85       16131
BF-1-1-storage              3.9        16219
BF-1-1-storage              3.95       16306
BF-1-1-storage              4          16394
BF-1-1-storage              4.05       16481
BF-1-1-storage              4.1        16568
BF-1-1-storage              4.15       16656
BF-1-1-storage              4.2        16743
BF-1-1-storage              4.25       16830
BF-1-1-storage              4.3        16918
BF-1-1-storage              4.35       17005
BF-1-1-storage              4.4        17092
BF-1-1-storage              4.45       17180
BF-1-1-storage              4.5        17267
BF-1-1-storage              4.55       17356
BF-1-1-storage              4.6        17446
BF-1-1-storage              4.65       17535
BF-1-1-storage              4.7        17624
BF-1-1-storage              4.75       17713
BF-1-1-storage              4.8        17803
BF-1-1-storage              4.85       17892
BF-1-1-storage              4.9        17981
BF-1-1-storage              4.95       18070
BF-1-1-storage              5          18160
BF-1-1-storage              5.05       18249
BF-1-1-storage              5.1        18338
BF-1-1-storage              5.15       18427
BF-1-1-storage              5.2        18517
BF-1-1-storage              5.25       18606
BF-1-1-storage              5.3        18695
BF-1-1-storage              5.35       18784
BF-1-1-storage              5.4        18874
BF-1-1-storage              5.45       18963
BF-1-1-storage              5.5        19052

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
OCEANSIDE-RAIN   FILE "OCEANSIDE.prn"
```

```
[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 664.453 4315.668 1694.096 5505.165
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC1             1481.291           4369.736
DIV              1391.474           4955.804
BF-1-1-Storage   1367.896           4777.792

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
UNDERDRAIN       1472.817           4866.208
UNDERDRAIN       1473.996           4866.208

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
DMA-1-SoilB      1021.576           5446.591
BF-1-1           1413.569           5162.734
BYPASS-soilD     832.509            4978.329
DMA-1-soildD     1409.064           5365.489
DMA-1-ex-offsite-soilD 1828.091           5216.802
DMA-2-soilb      1661.865           4598.637
DMA-2-SoilD      1674.212           4551.304

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
OCEANSIDE        711.255            5356.409
```

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.014)

PACIFICA SITE-DEVELOPED

WARNING 04: minimum elevation drop used for Conduit BYPASS
WARNING 04: minimum elevation drop used for Conduit UNDERDRAIN

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Flow Routing Method ..... KINWAVE
Starting Date 08/28/1951 00:00:00
Ending Date 05/23/2008 23:00:00
Antecedent Dry Days 0.0
Report Time Step 01:00:00
Wet Time Step 00:15:00
Dry Time Step 04:00:00
Routing Time Step ..... 60.00 sec

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Initial LID Storage	0.042	0.032
Total Precipitation	881.989	675.250
Evaporation Loss	96.783	74.097
Infiltration Loss	358.564	274.516
Surface Runoff	178.849	136.926
LID Drainage	255.989	195.985
Final Storage	0.089	0.068
Continuity Error (%)	-0.934	

**********	Volume	Volume

Flow Routing Continuity	acre-feet	10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	434.837	141.698
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	434.816	141.691
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.005	

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****

Minimum Time Step	:	60.00 sec
Average Time Step	:	60.00 sec
Maximum Time Step	:	60.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	1.00
Percent Not Converging	:	0.00

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
DMA-1-SoilB	675.25	0.00	72.72	188.41	411.80	10.45	422.25	45.23	4.57	0.625
BF-1-1	675.25	21298.77	1171.98	0.00	0.00	0.00	20790.90	117.99	12.21	0.946
BYPASS-soilD	675.25	0.00	21.18	547.75	0.00	107.64	107.64	13.04	3.63	0.159
DMA-1-soildD	675.25	0.00	75.72	158.53	391.25	58.60	449.85	68.40	6.62	0.666
DMA-1-ex-offsite-soilD	675.25	0.00	65.65	214.45	323.69	80.21	403.89	7.24	0.77	0.598
DMA-2-soilb	675.25	0.00	82.18	129.07	465.43	7.41	472.84	3.98	0.36	0.700
DMA-2-SoilD	675.25	0.00	86.21	96.35	465.41	36.81	502.23	6.68	0.58	0.744

****

LID Performance Summary
****

Subcatchment	LID Control	Total Inflow in	Evap Loss in	Infil Loss in	Surface Outflow in	Drain Outflow in	Initial Storage in	Final Storage in	Continuity Error %
BF-1-1	BASIN-BF-1-1	21974.02	1172.54	0.00	6095.89	14705.00	2.40	3.53	-0.00

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
POC1	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
DIV	DIVIDER	0.00	0.00	0.00	0 00:00	0.00
BF-1-1-Storage	STORAGE	0.05	4.41	4.41	15835 21:04	4.41

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
POC1	OUTFALL	4.39	14.14	15835 21:01	23.7	142	0.000
DIV	DIVIDER	12.21	12.21	18857 17:01	118	118	0.000
BF-1-1-Storage	STORAGE	0.00	12.10	18857 17:01	0	63.7	0.011

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum

Storage Unit	Volume 1000 ft3	Pcnt Full	Pcnt Loss	Pcnt Loss	Volume 1000 ft3	Pcnt Full	Occurrence days hr:min	Outflow CFS
BF-1-1-Storage	0.595	1	0	0	59.087	75	15835 21:03	9.65

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POC1	15.24	0.07	14.14	141.681
System	15.24	0.07	14.14	141.681

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
BYPASS	DUMMY	12.10	18857 17:01			
UNDERDRAIN	DUMMY	0.11	141 11:25			
OUTLET	DUMMY	9.65	15835 21:04			

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Thu Mar 23 10:51:47 2023
Analysis ended on: Thu Mar 23 10:52:26 2023
Total elapsed time: 00:00:39

ATTACHMENT 7 - SWMM Explanation of Significant Variables

Attached, the reader can see the reports associated with the EPA-SWMM Model in both pre-development and post-development conditions. Each portion, i.e., sub-catchments, outfalls, storage units, LID controls for the bio-retention cells, ponding on top of the bio-retention (modeled as a storage unit), weir as a discharge, and outfalls (point of compliance), are also shown.

Soil characteristics of the existing soils were determined from the USGS sources.

Description of model parameters and assumptions:

N-Imperv – Manning's N for impervious surfaces

0.012 (typical)

N-Perv – Manning's N for pervious surfaces

0.15 (typical)

Dstore-Imperv – Depth of depression storage on impervious area (in)

0.05 (typical)

Dstore-Perv – Depth of depression storage on pervious area (in)

0.1 (typical)

%Zero-Imperv – Percentage of impervious area with no depression storage (%)

25 (typical)

Suction Head – Soil capillary suction head (in)

Conductivity – Soil saturated hydraulic comfuctivity (in/hr)

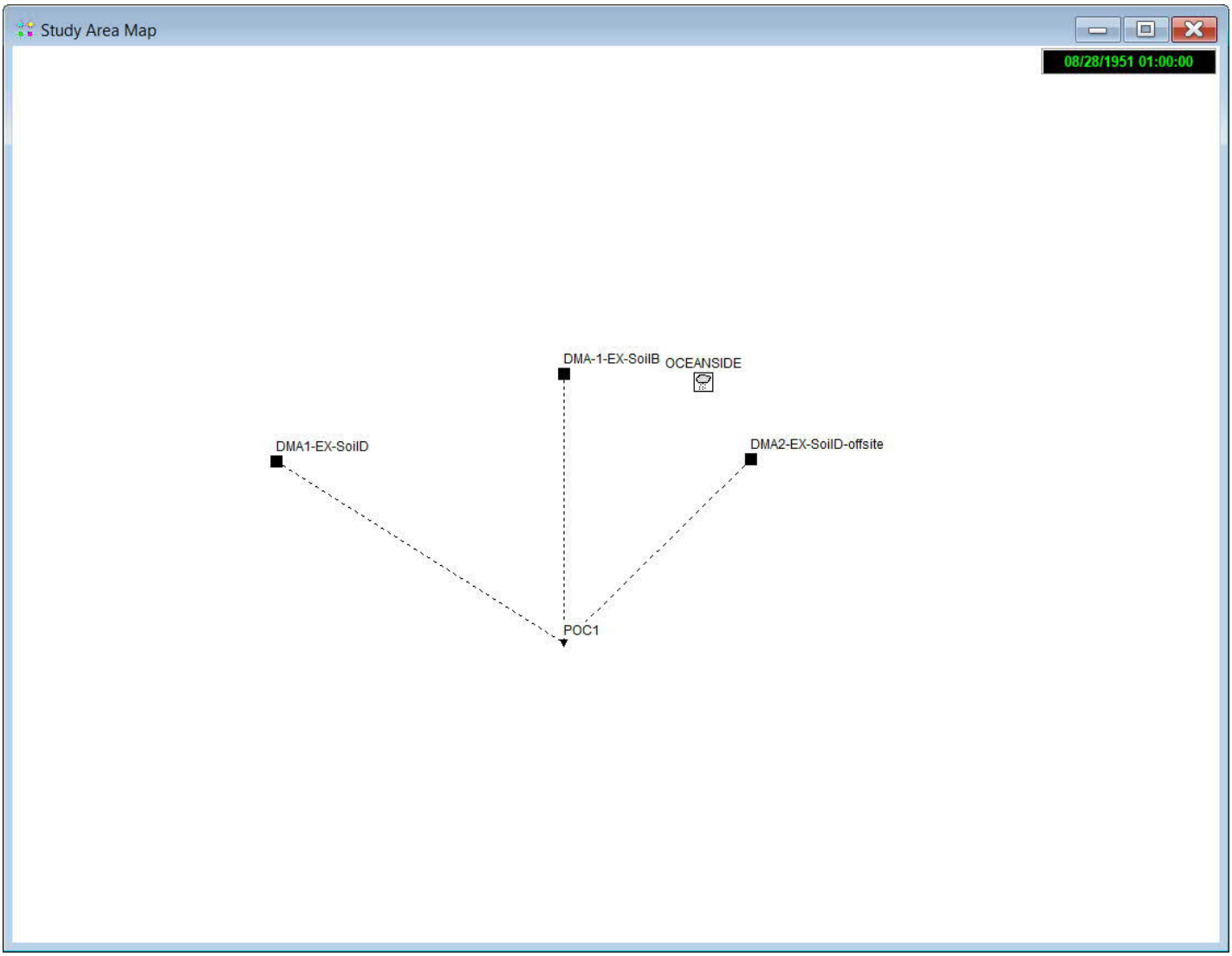
-75% of these values if subcatchment is graded/compacted

Initial Deficit – Initial moisture deficit (fraction)

Soil Type	Suction Head	Conductivity	Initial Deficit
A	1.5	0.3	0.30
B	3	0.2	0.31
C	6	0.1	0.32
D	9	0.025	0.33

NOTE: These values are based on City of Oceanside BMP Design Manual, Appendix G for SWMM and recommended values for the EPA SWMM program.

POC 1 – Pre-Developed Condition



EXPLANATION OF SELECTED VARIABLES

Parameters for the pre- and post-developed models include soil types B and D in accordance with the San Diego County Hydrology Manual and the USGS Soil Survey Map (attached at the end of this appendix). Suction head, conductivity and initial deficit corresponds to average values expected for the soil types, values recommended by the "Model BMP Design Manual San Diego Region for Permanent Site Design, Stormwater Treatment, and Hydromodification Management .

H&A selected infiltration values, such that the percentage of total precipitation that becomes runoff, is realistic for soil types B and D and slightly smaller than measured values for Southern California watersheds.

Selection of a Kinematic Approach: As the continuous model is based on hourly rainfall, and the time of concentration for the pre-development and post-development conditions is significantly smaller than 60 minutes, precise routing of the flows through the impervious surfaces, the underdrain pipe system, and the discharge pipe was considered unnecessary. The truncation error of the precipitation into hourly steps is much more significant than the precise routing in a system where the time of concentration is much smaller than 1 hour.

Sub-catchments labeled BR-X:

The area of Prop-X + BR-X must be equal to the area of the development tributary to that particular bio-retention facility. Five (5) decimal places were given regarding the areas of the bio-retention to insure that the area used by the program for the LID subroutine corresponds exactly with these tributaries.

The area input in the LID Usage Editor is the ponded area at the water quality depth. The depth input in the suface tab of the LID Control Editor equates to a volume on the surface of the bioretention basin. SWMM "sees" vertical side slopes in the LID Editor, so in order to not over estimate the surface storage that is reduced by the actual side slopes of the basin, we have calculated an 'effective' depth by calculating the surface volume and dividing by the ponded area.

LID Control Editor Input Definitions:
Storage Depth - When confining walls or berms are present this is the maximum depth to which water can pond above the surface of the unit before overflow occurs (in inches or mm). For LIDs that experience overland flow it is the height of any surface depression storage. For swales, it is the height of its trapezoidal cross section.

Vegetation Volume Fraction - The fraction of the volume within the storage depth filled with vegetation. This is the volume occupied by stems and leaves, not their surface area coverage. Normally this volume can be ignored, but may be as high as 0.1 to 0.2 for very dense vegetative growth.

Surface Roughness - Manning's n for overland flow over the surface of porous pavement or a vegetative swale (see this table for suggested values). Use 0 for other types of LIDs.

Surface Slope - Slope of porous pavement surface or vegetative swale (percent). Use 0 for other types of LIDs.

Thickness - The thickness of the soil layer (inches or mm). Typical values range from 18 to 36 inches (450 to 900 mm) for rain gardens, street planters and other types of land-based bio-retention units, but only 3 to 6 inches (75 to 150 mm) for green roofs.

Porosity - The volume of pore space relative to total volume of soil (as a fraction).

Field Capacity - Volume of pore water relative to total volume after the soil has been allowed to drain fully (as a fraction). Below this level, vertical drainage of water through the soil layer does not occur.

Wilting Point - Volume of pore water relative to total volume for a well dried soil where only bound water remains (as a fraction). The moisture content of the soil cannot fall below this limit.

Conductivity - Hydraulic conductivity for the fully saturated soil (in/hr or mm/hr).

Conductivity Slope - Slope of the curve of log(conductivity) versus soil moisture content (dimensionless). Typical values range from 5 for sands to 15 for silty clay.

Suction Head - The average value of soil capillary suction along the wetting front (inches or mm). This is the same parameter as used in the Green-Ampt infiltration model.

Height - This is the thickness of a gravel layer (inches or mm).

Void Ratio - The volume of void space relative to the volume of solids in the layer. Typical values range from 0.5 to 0.75 for gravel beds. Note that porosity = void ratio / (1 + void ratio).

Infiltration Rate - The rate at which water infiltrates into the native soil below the layer (in inches/hour or mm/hour).This would typically be the Saturated Hydraulic Conductivity of the surrounding subcatchment if Green-Ampt infiltration is used or the Minimum Infiltration Rate for Horton infiltration. If there is an impermeable floor or liner below the layer then use a value of 0.

Clogging Factor - Total volume of treated runoff it takes to completely clog the bottom of the layer divided by the void volume of the layer. Use a value of 0 to ignore clogging. Clogging progressively reduces the Infiltration Rate in direct proportion to the cumulative volume of runoff treated and may only be of concern for infiltration trenches with permeable bottoms

and no under drains. Refer to the Pavement Layer page for more discussion of the Clogging Factor.

Drain Coefficient and Drain Exponent - Coefficient C and exponent n that determines the rate of flow through the underdrain as a function of height of stored water above the drain height. The following equation is used to compute this flow rate (per unit area of the LID unit):

$q = C(h-Hd)n$

where q is outflow (in/hr or mm/hr), h height of stored water (inches or mm), and Hd is the drain height. If the layer does not have an underdrain then set C to 0. A typical value for n would be 0.5 (making the drain act like an orifice). A rough estimate for C can be based on the time T required to drain a depth D of stored water. For n = 0.5, C = 2D1/2/T.

Drain Offset Height - Height of any underdrain piping above the bottom of a storage layer or rain barrel (inches or mm).

LID Control Editor: Explanation of Significant Variables

Storage Depth:
The storage depth variable within the SWMM model is representative of the storage volume provided beneath the engineered soil and mulch components of the bioretention facility. This storage volume is comprised of a gravel located bed beneath a layer of engineered soil and a 0.25 foot (3-inch) layer of landscaping mulch.

Porosity:
A porosity value of 0.4 has been selected for the model. The amended soil is to be highly sandy in content in order to have a saturated hydraulic conductivity of approximately 5 in/hr.

H&A considers such a value to be slightly high; however, in order to comply with the HMP Permit, the value recommended by the Copermittees for the porosity of amended soil is 0.4, per Appendix A of the Final Hydromodification Management Plan by Brown & Caldwell, dated March 2011.

Void Ratio:
The ratio of the void volume divided by the soil volume is directly related to porosity as n/(1-n). As the underdrain layer is composed of gravel, a porosity value of 0.4 has been selected, which results in a void ratio of 0.4/(1-0.4) = 0.67 for the gravel detention layer.

Clogging factor:
A clogging factor was not used (0 indicates that there is not clogging assumed within the model). The reason for this is related to the fairness of a comparison with the SDHM model and the HMP sizing tables: a clogging factor was not considered, and instead, a conservative value of infiltration was recommended.

Drain (Flow) coefficient:
The flow coefficient in the SWMM Model is the coefficient needed to transform the orifice equation into a general power law equation of the form:

$$q = C(H - H_D)^n \qquad (1)$$

where q is the peak flow in in/hr, n is the exponent (typically 0.5 for orifice equation), H D is the elevation of the centroid of the orifice in inches (assumed equal to the invert of the orifice for small orifices and in our design equal to 0) and H is the depth of the water in inches.

The general orifice equation can be expressed as:

$$Q = \frac{\pi}{4} c_g \frac{D^2}{144} \sqrt{2g \frac{(H - H_D)}{12}} \qquad (2)$$

where Q is the peak flow in cfs, D is the diameter in inches, c g is the typical discharge coefficient for orifices (0.61-0.63 for thin walls and around 0.75-0.8 for thick walls), g is the acceleration of gravity in ft/s^2, and H and H D are defined above and are also used in inches in Equation (2).

Cutoff Flow:

This is the only significant variable in the diversion, as the type of diversion is defined by this value. Any excess of flow over this value will be diverted into a pond subroutine (the surface stage of the bio-retention basin) and routed there. The determination of this value equates to the value obtained with equation (2) above, plus 1%, when H = depth of gravel layer and H_D=0 (orifice situated at the datum). Thus, once flows exceed the maximum discharge the LID orifice experiences a head of the storage depth, ponding occurs within the bioretention basin, routing these additional flows via the pond riser.

Note:
The complete storage and rating curves and the respective explanation is shown at the end of this appendix. A variable area vs. elevation storage curve was used for the final model, and a discharge that is a function of the outlet structure in the surface was used also.

ATTACHMENT 8 - Drying Time of the Surface Layer of Bio-retention cells

The LID subroutine of the SWMM Model does not increase the discharge of the lower LID orifice once the storage layer is full (in other words, it does not consider the influence of the pressure in the amended soil layer). The discharge of the lower LID orifice when the surface layer is full is considered constant by the model and equal to the discharge of the lower orifice when the storage layer is full (equal to the cutoff flows).

The drying time interval between an elevation yi and another elevation $yi - \Delta y$ can be obtained by:

$$\Delta t_i(hours) = \frac{(Q(yi)+Q(yi-\Delta y))}{7200\ (V(yi)-V(yi-\Delta y))} = \frac{Q_{ave}}{3600\ \Delta V}$$

$$t = \sum_{i=1}^{n} \Delta t_i\ (hours)$$

Q_{ave} represents the average discharge between elevation y_i and y_{i+1} obtained by $\frac{Q(yi)+Q(yi-\Delta y)}{2}$ where ΔV represents the fraction of the volume that must be discharged at a peak flow $Q_{ave}(V(yi) - V(yi - \Delta y))$.

The volume and the discharge change as the elevation changes; the calculation takes into account this change.

BASIN DRAWDOWN			
Ponding Depth (FT)	Qout Total (CFS)	V in basin (CU FT)	Total Drawdown Time (HR)
6.00	62.391	83517	0.00
5.90	56.357	81621	0.01
5.80	50.533	79742	0.02
5.70	44.929	77882	0.03
5.60	39.552	76039	0.04
5.50	34.412	74214	0.06
5.40	29.523	72407	0.07
5.30	24.896	70618	0.09
5.20	20.548	68847	0.11
5.10	16.498	67093	0.14
5.00	12.770	65358	0.17
4.90	9.396	63640	0.21
4.80	6.417	61939	0.27
4.70	3.897	60256	0.36
4.60	1.943	58590	0.52
4.50	0.861	56942	0.85
4.40	0.830	55312	1.38
4.30	0.797	53699	1.94
4.20	0.761	52103	2.50
4.10	0.723	50525	3.10
4.00	0.681	48964	3.71
3.90	0.634	47420	4.36
3.80	0.578	45894	5.06
3.70	0.483	44384	5.86
3.60	0.397	42891	6.80
3.50	0.360	41415	7.88
3.40	0.355	39956	9.01
3.30	0.349	38514	10.15
3.20	0.343	37089	11.30
3.10	0.337	35680	12.45
3.00	0.330	34289	13.61
2.90	0.324	32914	14.77
2.80	0.317	31556	15.95
2.70	0.310	30213	17.14
2.60	0.303	28887	18.34
2.50	0.295	27578	19.56
2.40	0.287	26285	20.79
2.30	0.279	25008	22.04
2.20	0.270	23747	23.32
2.10	0.261	22503	24.62
2.00	0.251	21275	25.95
1.90	0.239	20062	27.33

1.80	0.226	18866	28.75
1.70	0.210	17686	30.26
1.60	0.183	16521	31.91
1.50	0.168	15372	33.73
1.40	0.165	14238	35.62
1.30	0.161	13121	37.53
1.20	0.158	12019	39.45
1.10	0.154	10933	41.39
1.00	0.149	9863	43.35
0.90	0.144	8808	45.35
0.80	0.139	7768	47.38
0.70	0.132	6744	49.49
0.60	0.119	5735	51.72
0.50	0.110	4741	54.13
0.40	0.110	3762	56.61
0.30	0.110	2799	59.05
0.20	0.110	1851	61.46
0.10	0.110	918	63.82
0.00	0.110	0	66.15

ATTACHMENT 9 – Hydromodification Watershed Maps

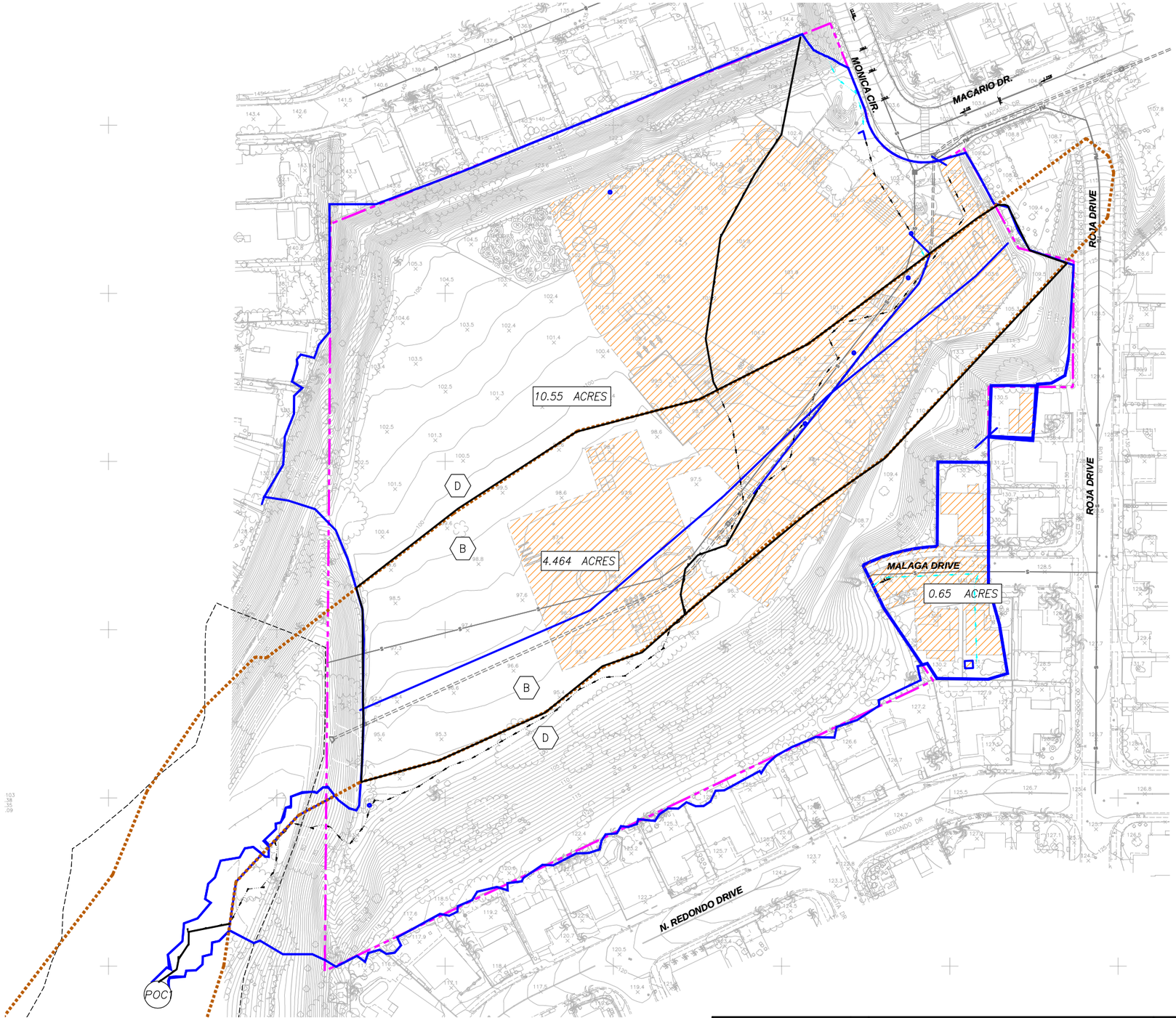
LEGEND

- PROJECT BOUNDARY
- DRAINAGE BOUNDARY
- INITIAL SUBAREA
- FLOW DIRECTION
- XX.XX ACRES — AREA
- X — HYDROLOGIC SOIL TYPE
- XXX — NODE NUMBER
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA

H&A

60 0 60 120 180

SCALE 1"= 60'



PREPARED BY:

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EXISITNG HYDROLOGY PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 5087-0010

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LEGEND

- PROJECT BOUNDARY
- DMA BOUNDARY
- FLOW DIRECTION
- BYPASS STORM DRAIN
- STORM DRAIN
- ON-SITE STORM DRAIN INLETS
- 00.00 ACRES — SUBAREA ACREAGE
- DMA 1 — DMA ICON
- IMPERVIOUS - ROAD/SIDEWALK/ DRIVEWAY
- IMPERVIOUS - ROOF/BUILDING
- PERVIOUS - LANDSCAPE
- BIOFILTRATION BASIN
- B D — HYDROLOGIC SOIL TYPE
- X — POINT OF COMPLIANCE
- STRUCTURAL BMP
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA
- DECOMPOST GRANIET
- DISTURBED AREA BOUNDARY

UNDERLYING SOIL GROUP : B & D
APPROXIMATE DEPTH TO GROUNDWATER > 20'
NO CRITICAL COARSE AREAS REQUIRE PRESERVATION

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HMP PROPOSED
PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 1

W.O.# 3087-0010

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ATTACHMENT 10 – USGS Soil Map for justification of Soil Type Conditions

Map Scale: 1:2,140 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
Survey Area Data: Version 16, Sep 13, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 24, 2020—Feb 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
GoA	Grangeville fine sandy loam, 0 to 2 percent slopes	B	4.5	30.1%
LeC	Las Flores loamy fine sand, 2 to 9 percent slopes	D	0.7	5.0%
LeC2	Las Flores loamy fine sand, 5 to 9 percent slopes, eroded	D	0.9	5.8%
LeE2	Las Flores loamy fine sand, 15 to 30 percent slopes, eroded	D	8.9	59.2%
Totals for Area of Interest			**15.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Placeholder – **Vector Control Plan** (required when structural BMPs will drain in 96 hours)

Replace placeholder with required documentation.

Leave placeholder intact if not applicable.

Not Applicable

ATTACHMENT 3
STRUCTURAL BMP MAINTENANCE INFORMATION

This is the cover sheet for Attachment 3.

Indicate which Items are Included:

Attachment Sequence	Contents	Checklist
Attachment 3a	Structural BMP Maintenance Thresholds and Actions (Required)	☒Included See Structural BMP Maintenance Information Checklist.
Attachment 3b	Draft Maintenance Agreement (when applicable)	☒Included ☐Not Applicable

Use this checklist to ensure the required information has been included in the Structural BMP Maintenance Information Attachment:

Preliminary Design / Planning / CEQA level submittal:

- Attachment 3a must identify:

☒Typical maintenance indicators and actions for proposed structural BMP(s) based on Section 7.7 of the BMP Design Manual

- Attachment 3b is not required for preliminary design / planning / CEQA level submittal.

Final Design level submittal:

Attachment 3a must identify:

☒Specific maintenance indicators and actions for proposed structural BMP(s). This shall be based on Section 7.7 of the BMP Design Manual and enhanced to reflect actual proposed components of the structural BMP(s)
☒How to access the structural BMP(s) to inspect and perform maintenance
☒Features that are provided to facilitate inspection (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds)
☒Manufacturer and part number for proprietary parts of structural BMP(s) when applicable
☒Maintenance thresholds specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP)
☒Recommended equipment to perform maintenance
☒When applicable, necessary special training or certification requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management
Attachment 3b: For private entity operation and maintenance, Attachment 3b shall include a draft maintenance agreement in the local jurisdiction's standard format (PDP applicant to contact the City Engineer to obtain the current maintenance agreement forms).

CITY OF OCEANSIDE

BEST MANAGEMENT PRACTICES OPERATIONS AND MAINTENANCE PLAN FOR PRIORITY PROJECTS

PROJECT NAME: PACIFIC SITE, OCEANSIDE

PARCEL NUMBER: 157-070-42, 122-190-19, & 122-190-22

PROJECT NUMBER: _____

APPLICANT NAME: MERITAGE HOMES

DATE: JUNE 13TH, 2022

Prepared for:

City of Oceanside
Engineering Division
300 North Coast Hwy
Oceanside, CA 92054

This O&M Plan is a placeholder for preliminary Design

Deemed Complete by the City of Oceanside
Engineering Division

Name:_____ Date: _____

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3. BMP Operation and Maintenance Funding Supplemental Information
4. LID BMPs Inspection Form
5. Source Control BMP Inspection Form
6. Site Map
7. Plans and Other Operation and Maintenance Requirements
8. Treatment Control BMP Inspection and Maintenance Checklist(s)
9. Maintenance Schedule
10. Service Agreement
11. Annual Inspection and Maintenance Reporting Form
12. Copy of Storm water facility maintenance Agreement (SWFMA)
13. Annual Maintenance Cost Estimate

I. COMPLIANCE WITH STORMWATER BEST MANAGEMENT PRACTICES MAINTENANCE REQUIREMENTS

All applicants are responsible for ensuring that stormwater best management practices (BMPs) or facilities installed on their property are properly maintained and that they function as designed. Tenants shall be aware of their responsibilities regarding stormwater facility maintenance and need to be familiar with the contents of this Operations and Maintenance Plan (O&M Plan). Applicants have signed and agreed to a Standard Storm Water Facilities Maintenance Agreement with Access Rights and Covenants (SWFMA). All other maintenance agreements between the applicant and their maintenance employees associated with this property shall be included in Attachment 10.

II. DESIGNATION RESPONSIBLE PARTIES

Responsible parties shall be designated and identified in Table 1.

- The Responsible BMP Party is individual, party, or parties that shall have direct responsibility for the maintenance of stormwater controls. This individual shall be the designated contact with City of Oceanside inspectors and should sign self-inspection reports and any correspondence regarding verification of inspections and required maintenance.

- The Duly Authorized Representative is the corporate officer authorized to negotiate and execute any contracts that might be necessary for future changes to operation and maintenance or to implement remedial measures if problems occur.

- The Designated Emergency Respondent is the party responsible for emergencies such as clogged drains, broken irrigation pipes, etc., that would require immediate response should they occur during off-hours.

TABLE 1
OWNERSHIP AND MAINTENANCE

	Name	Address	Phone / Email
Responsible BMP Party (if different than above)			
Employees reporting to Responsible BMP Party			
Duly Authorized Representative			

Designated Emergency Respondent[1]			

[1] The Designated Emergency Respondent's phone number must be a cellular phone that is reachable 24 hours a day.

Updated contact information must be provided to City of Oceanside immediately whenever a property is sold and whenever designated individuals or contractors change.

A. Maintenance Personnel

Maintenance personnel including Responsible BMP Party, Employees Reporting to Responsible BMP Party, and the Designated Emergency Respondent, must be qualified to properly maintain stormwater BMPs (including treatment and flow-control facilities), especially for restoration or rehabilitation work. Inadequately trained personnel can cause additional problems resulting in additional maintenance costs.

B. Organizational Chart

An organization chart showing the relationships of authority and responsibility between the individuals responsible for maintenance is provided in Attachment 1.

C. Training

Periodic training is conducted by the responsible BMP party for all personnel affiliated with the maintenance of stormwater BMPs. New staff and/or contractors training regarding the purpose, mode of operation, and maintenance requirements for the site's storm water facilities will be provided by the site. Necessary ongoing training for staff and/or contractors will also be provided. The site's Staff Training Program is described in Attachment 2.

TABLE 2 BMP OPERATION AND MAINTENANCE FUNDING	
Sources of Funding	
Budget Category for Expenditures	
Process for	

establishing Annual O&M Budget	
Process for obtaining unexpected expenditures for major corrective activities	

D. BMP Maintenance Funding

The funding for BMP operation and maintenance shall be described in Table 2; including sources of funds, budget category for expenditures, process for establishing the annual operations and maintenance budget, and process for obtaining authority should unexpected expenditures for major corrective maintenance be required. Any supplemental information, including calculations and documentation shall be included in Attachment 3.

III. LOW IMPACT DEVELOPMENT AND SITE DESIGN BMPS

Low Impact Development (LID) and Site Design BMPs have been incorporated into the project to minimize stormwater impacts. LID BMPs collectively minimize directly connected impervious area and promote infiltration on the project site. Site design BMPs are permanent measures and are similar to LID BMPs.

The LID and Site Design BMPs for the project which require maintenance are identified along with their locations, including Drainage Management Areas (DMAs), in the project SWQMP. A LID Inspection form for the site is provided in Attachment 4. In the event that a project use should change or maintenance considerations may require the site to become amended, Table 22 should be referenced for original site constraints and design guidelines.

IV. SOURCE CONTROL BMPS

Source control BMPs have been selected for the project in order to minimize or prevent pollutant generation. The SWQMP and Table 4 of this O&M identifies the potential pollutant sources and corresponding permanent and operational source controls as well as their locations.

Source control BMPs should be inspected routinely in order to reduce or prevent pollution from accumulating in these areas. Routine inspections of the site's source controls are discussed in the site's maintenance schedule. Source control inspection forms are in Attachment 5.

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☒On-site storm drain inlets	• All inlets shall be marked with City of Oceanside storm drain markers	• Maintain and periodically replace inlet markers, as necessary. • Review stormwater pollution prevention information applicable to the site. • Adhere to applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com • Do not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains.	See Drainage Management Area Map.
☐Interior floor drains and elevator shaft sump pumps	• Interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.	• Inspect and maintain drains to prevent blockages and overflow. • Regularly clear all associated cleanouts and hand holes.	
☒Interior parking garages	• Parking garage floor drains will be plumbed to the sanitary sewer.	• Inspect and maintain drains to prevent blockages and overflow.	See Drainage Management Area Map.

TABLE 3 SOURCE CONTROL BMPS			
Potential Pollutant Sources	**Description**	**Operational BMPs**	**Location**
☒Landscape/ Outdoor Pesticide Use	• Final site landscape plans shall be placed in Attachment 7 and shall be used to maintain the following: o Preserve existing native trees, shrubs, and ground cover to the maximum extent possible. o Minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution. o Where landscaped areas are used to retain or detain stormwater, maintain and replace, as necessary, plants that are tolerant of saturated soil conditions. o Consider using pest-resistant plants, especially adjacent to hardscape. o To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.	• Maintain landscaping using a minimum amount of or no pesticides (consider the use of organic techniques). • Review and adhere to applicable operational BMPs in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com • Review IMP information and provide to landscape and maintenance personnel.	See Drainage Management Area Map.
☐Use efficient irrigation systems	• Employ rain shutoff devices to prevent irrigation after precipitation. • Design irrigation systems to each landscape area's specific water requirements. • Use flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. • Employ other comparable, equally effective, methods to reduce irrigation water runoff.	• Inspect irrigation system for leaks and/or malfunctions. • Inspect that water usage is consistent with vegetation requirements. • Inspect that irrigation shut-off controls operate correctly.	

TABLE 3 SOURCE CONTROL BMPS			
Potential Pollutant Sources	**Description**	**Operational BMPs**	**Location**
☐Need for future indoor & structural pest control	• Note building design features that discourage entry of pests.	• Review Integrated Pest Management information and provide to other maintenance personnel.	
☐Pools, spas, ponds, decorative fountains, and other water features.	• Plumb pools to the sanitary sewer in accordance with local requirements.	• Review and adhere to applicable operational BMPs in Fact Sheet SC-72, "Fountain and Pool Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	
☐Food service	• Describe the location and features of the designated cleaning area. • Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.		

TABLE 3 SOURCE CONTROL BMPS			
Potential Pollutant Sources	**Description**	**Operational BMPs**	**Location**
☐Refuse areas	• State how site refuse will be handled and provide supporting detail to what is shown on plans. • Prohibitive signs shall be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar. • Any drains from dumpsters, compactors, and bin areas shall be connected to a grease removal device before discharge to sanitary sewer.	• Provide adequate number of receptacles. • Inspect receptacles regularly; repair or replace leaky receptacles. • Keep receptacles covered at all times. • Prohibit/prevent dumping of liquid or hazardous wastes. • Post and replace, as necessary, "no hazardous materials" signs. • Inspect and pick up litter daily and clean up spills immediately. • Keep spill control materials available on-site. Review Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	
☐Industrial processes.	• Cover or enclose areas that would be the most significant source of pollutants; or, slope the area toward a dead-end sump; or, discharge to the sanitary sewer system in compliance with the applicable municipal waste water district's requirements (include a copy of the waste acceptance letter from the agency accepting the waste in Attachment 10). • Grade or berm area to prevent run-on from surrounding areas. • Installation of storm drains in areas of equipment repair is prohibited. • Implement other features which are comparable or equally effective.	• Review and adhere to Fact Sheet SC-10, "Non- Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☐ Outdoor storage of equipment or materials	• Comply with all requirements of local Hazardous Materials Programs for: o Hazardous Waste Generation o Hazardous Materials Release Response and Inventory o California Accidental Release (CalARP) o Aboveground Storage Tank o Uniform Fire Code Article 80 Section 103(b) & (c) 1991 • Underground Storage Tank • Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults. • Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site. Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.	• Review and adhere to the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC- 33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☐ Vehicle and Equipment Cleaning	• If a car wash area is not provided, describe measures taken to discourage on-site car washing and explain how these will be enforced. • Equip wash area with a clarifier, grease trap or other pretreatment facility, as appropriate and properly connect to the sanitary sewer. • Implement other features which are comparable or equally effective • Commercial/ industrial facilities having vehicle/ equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses. • Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer. • Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed and permitted by proper regulatory authorities (attach permits in Attachment 10, as necessary).	• Follow operational measures to implement the following (if applicable): o Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system. o Car dealerships and similar may rinse cars with water only. o Review and adhere to Fact Sheet SC-21, "Vehicle and Equipment Cleaning," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	.

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☐ Vehicle/Equipment Repair and Maintenance	• No vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area. • An industrial waste discharge permit will be obtained. For floor drains connected to the sanitary sewer; design will meet the permitting agency's requirements. • An industrial waste discharge permit will be obtained for tanks, containers or sinks to be used for parts cleaning or rinsing; design will meet the permitting agency's requirements. • Accommodate all vehicle equipment repair and maintenance indoors or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater. • Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.	• The following restrictions apply to use the site: o No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinse water from parts cleaning into storm drains. o No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately. o No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.	

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☐Fuel Dispensing Areas	• Fueling areas[1] shall have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are: o Graded at the minimum slope necessary to prevent ponding o Separated from the rest of the site by a grade break that prevents run-on of stormwater to the maximum extent practicable. • Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area[1]. The canopy [or cover] shall not drain onto the fueling area.	• The fueling area is to be dry swept routinely. • Review and adhere to the Business Guide Sheet, "Automotive Service—Service Stations" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	

[1] The fueling area shall be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.

TABLE 3 SOURCE CONTROL BMPS			
Potential Pollutant Sources	**Description**	**Operational BMPs**	**Location**
☐Loading Docks	• Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation. • Provide a roof overhang over the loading area or install door skirts cowling) at each bay that enclose the end of the trailer. • Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas should be drained to the sanitary sewer where feasible.	• Move loaded and unloaded items indoors as soon as possible. • Review and adhere to Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	
☐Fire Sprinkler Test Water	• Provide a means to drain fire sprinkler test water to the sanitary sewer.	• Review the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	

TABLE 3
SOURCE CONTROL BMPS

Potential Pollutant Sources	Description	Operational BMPs	Location
☐ Miscellaneous Drain or Wash Water • Boiler drain lines Condensate drain lines • Rooftop equipment Drainage sumps • Roofing, gutters, and trim	• Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system. • Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system. • Rooftop mounted equipment with potential to produce pollutants shall be roofed and/or have secondary containment. • Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water. • Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.		
☒ Plazas, sidewalks, and parking lots		• Plazas, sidewalks, and parking lots shall be swept regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.	See Drainage Management Area Map.

V. DRAINAGE AREAS

Table 5 summarizes the drainage management areas (DMAs) on site.

TABLE 4 DRAINAGE MANAGEMENT AREAS		
DMA No.	**Designation**	**Description**
DMA 1		Biofiltration Basin
DMA 2		Filterra Unit

The site map in Attachment 6 shows the DMAs and their flow patterns. The map indicates, using flow patterns, how the flow from each DMA is routed to the corresponding storm water facility. Impervious and pervious areas are shown on the map.

VI. STORMWATER TREATMENT CONTROL BMPS

Treatment control BMPs treating runoff from DMAs are summarized in Table 5.

TABLE 5 STORMWATER TREATMENT CONTROL BMPS			
Treatment Control BMP Type	**Description**	**Size or Treatment Control BMP Capacity**	**Area Drained or Water Quality Flow**
Bioretention	DMA 1 - SW	9100 S.F.	Area Drained
Filterra Unit	DMA 2 - NE	0.25 C.F.S.	Water Quality Flow

The location and type of each of the project's stormwater facilities on site are shown on the site map in Attachment 6.
The as-built drawings[2], manufacturer's data, cut-sheets, manuals, and specific operation and maintenance requirements for each treatment control BMP shall be provided in Attachment 7.

[2] As-built drawings must be included after construction is complete.

VII. INSPECTING STORMWATER BMPS

The quality of stormwater entering the waters of the U.S. or waters of the state relies heavily on the proper operation and maintenance of permanent BMPs. LID, source control, and treatment control stormwater BMPs must be periodically inspected to ensure that they are functioning as designed. Inspections will determine the appropriate maintenance that is required for the facility.

A. Inspection Procedures

All stormwater treatment BMPs are required to be inspected a minimum of once per year. The Inspection and Maintenance Checklist(s) that is applicable to the site is provided in Attachment 8.

B. Inspection Report

The person(s) conducting the inspection activities (Responsible BMP Party. Employees reporting to Responsible BMP Party, or the Designated Emergency Respondent) shall complete the appropriate inspection checklist for the specific facility. All completed checklists are located in Attachment 8. All facilities are to be inspected on an annual basis at a minimum. A copy of each inspection form shall be kept by the applicant a minimum of 5 years.

Inspection Scoring

For each inspection item, a score is given to identify the urgency for any required maintenance. The scoring is as follows:

0 = No deficiencies identified.

1 = Monitor – Although maintenance may not be required at this time, a potential problem exists that will most likely need to be addressed in the future. This can include items like minor erosion, concrete cracks/spalling, or minor sediment accumulation. This item should be revisited at the next inspection.

2 = Routine Maintenance Required – Some inspection items can be addressed through the routine maintenance program. This can include items like vegetation management or debris/trash removal.

3 = Immediate Repair Necessary – This item needs immediate attention because failure is imminent or has already occurred. This could include items such as structural failure of a feature (outlet, weir, manhole, etc.), significant erosion, or significant sediment accumulation. This score should be given to an item that can significantly affect the function of the facility.

N/A = This is checked by an item that may not exist in a facility. Not all facilities have all of the features identified on the form (outlet, weir, manhole, etc.).

Overall Facility Rating

An overall rating is given for each facility inspected. The overall facility rating should correspond with the highest score (0, 1, 2, 3) given to any feature on the inspection form.

C. Verification of Inspection and Checklist Submittal

The Stormwater BMP Inspection and Maintenance Checklist (in Attachment 8) provides a record of inspections and the need for maintenance activities at the facility. Verification of the inspection of the stormwater facilities and the facility inspection checklist(s) shall be available to the City of Oceanside if requested.

VIII. MAINTENANCE SCHEDULE FOR STORMWATER BMPS

A maintenance schedule for the stormwater source control and treatment control BMPs on site is provided in Attachment 9. Attachment 9 includes schedules for routine inspection and maintenance, annual inspection and maintenance, and inspection and maintenance after major storm events.

A service agreement with any contractors hired to perform stormwater treatment control BMP maintenance is also provided in Attachment 10.

IX. MAINTAINING STORMWATER BMPS

Stormwater BMPs must be properly maintained to ensure that they operate correctly and provide the water quality treatment for which they were designed. Routine maintenance performed on a frequently scheduled basis, can help avoid more costly rehabilitative maintenance that results when facilities are not adequately maintained.

A. Maintenance Categories

Stormwater BMP maintenance programs are separated into three broad categories of work: routine, restoration, and rehabilitation. The categories are separated based upon the magnitude and type of the maintenance activities performed. A description of each category follows:

Routine Work

This work includes items such as the removal of debris/material that may be clogging the outlet structure well screens and trash racks. It also includes activities such as road and parking lot sweeping, weed control, mosquito treatment, and algae treatment. These activities normally will be performed

numerous times during the year. These items can be completed without any prior correspondence; however, inspection and maintenance forms shall be completed.

Restoration Work

This work consists of a variety of isolated or small-scale maintenance and work needed to address operational problems. Most of this work can be completed by a small crew, with minor tools, and small equipment. These items do not require prior correspondence. However, completed maintenance forms are required.

Rehabilitation Work

This work consists of large-scale maintenance and major improvements needed to address failures within the stormwater BMP. This work requires consultation with the City of Oceanside and may require an engineering design with construction plans to be prepared for review and approval.

B. Maintenance Forms

The Stormwater BMP Inspection and Maintenance Form provides a record of maintenance activities and includes general cost information to assist in budgeting for future maintenance. Maintenance Forms for each facility type are provided in Appendix 3. Maintenance Forms shall be completed by the responsible BMP party. The form shall then be reviewed by the applicant or an authorized agent of the applicant and made available for review upon inspection by the City of Oceanside.

X. PREVENTATIVE MEASURES TO REDUCE MAINTENANCE COSTS

The most effective way to maintain a stormwater quality facility is to prevent pollutants from entering the facility. Common pollutants include sediment, trash & debris, chemicals, pet wastes, runoff from stored materials, illicit discharges into the storm drainage system and many others. This maintenance program includes measures to address these potential contaminants at the source and save time and money in the long run. The maintenance program will consider the following:

- Educate employees and patrons to be aware of how their actions affect water quality and how they can help reduce maintenance costs.
- Keep properties, streets, gutters, and parking lots free of trash, debris, and lawn clippings.
- Ensure the proper use, storage, and disposal of hazardous wastes and chemicals. Promptly clean up spilled materials and dispose of properly.

- Plan landscape care to minimize and properly use chemicals and pesticides.
- Sweep paved surfaces and put the sweepings back on the lawn.
- Be aware of automobiles leaking fluids. Use absorbents such as cat litter to soak up drippings – dispose of properly.
- Encourage pet owners to clean up pet wastes.
- Re-vegetate disturbed and bare areas to maintain vegetative stabilization.
- Clean any private storm drainage system components, including inlets, storm drains, and outfalls.
- Do not store materials outdoors (including landscaping materials) unless properly protected from runoff.

XI. INSPECTION & MAINTENANCE – ANNUAL REPORTING

The tenant is responsible for providing verification that the stormwater treatment control BMPs have been properly inspected and maintained unless otherwise noted. Verification includes records of inspections and maintenance performed on site. Any maintenance required will be identified and described.
Records should be available at the City of Oceanside's request.

ATTACHMENT 1

ORGANIZATIONAL CHART

ATTACHMENT 2

TRAINING PROGRAM

ATTACHMENT 3

BMP OPERATION AND MAINTENANCE FUNDING SUPPLEMENTAL INFORMATION

ATTACHMENT 4

LID BMPS INSPECTION FORM

LID BMP INSPECTION FORM					
Date:	**Inspector:**		**Weather:**		
Reason for Inspection:			**Comments:**		
LID BMP Type	**Description**	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
☐Bioretention			☐Regularly weed and water during plant establishment phase	☐No ☐ Yes	
			☐Area is free of litter and excess sediment	☐No ☐ Yes	
			☐Area free of erosion and stabilized	☐No ☐ Yes	
			☐Plants are healthy and thriving	☐No ☐ Yes	
			☐Plant types are those from original design	☐No ☐ Yes	
☐Filter Strips			☐Regularly weed and water during plant establishment phase	☐No ☐ Yes	
			☐Plants are healthy and thriving	☐No ☐ Yes	
			☐Area free of erosion and stabilized	☐No ☐ Yes	
			☐Area is free of litter and excess sediment	☐No ☐ Yes	
			☐Plant types are those from original design	☐No ☐ Yes	
			☐Flow spreader is free of debris and is not clogged	☐No ☐ Yes	

LID BMP INSPECTION FORM					
Date:	**Inspector:**		**Weather:**		
Reason for Inspection:			**Comments:**		
LID BMP Type	**Description**	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
☐Vegetated Buffers			☐Regularly weed and water during plant establishment phase	☐No ☐ Yes	
			☐Plants are healthy and thriving	☐No ☐ Yes	
			☐Area free of erosion and stabilized	☐No ☐ Yes	
			☐Area is free of litter and excess sediment	☐No ☐ Yes	
			☐Plant types are those from original design	☐No ☐ Yes	
			☐Flow spreader is free of debris and is not clogged	☐No ☐ Yes	
☐Bioswale/Grassed Swale			☐Regularly weed and water during plant establishment phase	☐No ☐ Yes	
			☐Plants are healthy and thriving	☐No ☐ Yes	
			☐Area free of erosion and stabilized	☐No ☐ Yes	
			☐Area is free of litter and excess sediment	☐No ☐ Yes	
			☐Plant types are those from original design	☐No ☐ Yes	
☐Green Roofs			☐Regularly weed and water during plant establishment phase	☐No ☐ Yes	

LID BMP INSPECTION FORM					
Date:	**Inspector:**		**Weather:**		
Reason for Inspection:			**Comments:**		
LID BMP Type	**Description**	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
☐*Green Roofs Cont'd*			☐Plants are healthy and thriving	☐No ☐ Yes	
☐Rain Barrels / Cisterns			☐Roof catchment and gutters are free of debris and sediment	☐No ☐ Yes	
			☐Downspouts are free of leaks and obstructions	☐No ☐ Yes	
			☐Rain barrel, top, and seal are free of leaks	☐No ☐ Yes	
			☐Overflow pipe is not causing erosion	☐No ☐ Yes	
☐Porous Pavement			☐Pavement is free of debris and sediment	☐No ☐ Yes	
			☐Pavement is swept monthly	☐No ☐ Yes	
			☐Pavement is in good condition and stabilized	☐No ☐ Yes	
			☐Area is dry swept regularly	☐No ☐ Yes	
☐Soil Structure Enhancement (use of compost)			☐Area is protected from compaction	☐No ☐ Yes	
			☐Limited foot traffic	☐No ☐ Yes	
			☐2 to 1 ratio of compost soil and existing soil is present	☐No ☐ Yes	

ATTACHMENT 5

SOURCE CONTROL BMP INSPECTION FORM

SOURCE CONTROL BMP INSPECTION FORM				
Date:	**Inspector:**	**Weather:**		
Reason for Inspection:		**Comments:**		
Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
☐On-site storm drain inlets		☐Maintain and periodically replace inlet markers, if necessary.	☐No ☐ Yes	
		☐Review stormwater pollution prevention information applicable to the site.	☐No ☐ Yes	
		☐Adhere to applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
		☐Do not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains.	☐No ☐ Yes	
☐Interior floor drains and elevator shaft sump pumps		☐Inspect and maintain drains to prevent blockages and overflow.	☐No ☐ Yes	
☐Interior parking garages		☐Inspect and maintain drains to prevent blockages and overflow.	☐No ☐ Yes	
☐Landscape/ Outdoor Pesticide Use		☐Maintain landscaping using minimum or no pesticides.	☐No ☐ Yes	
		☐Review and adhere to applicable operational BMPs in Fact Sheet SC-41, `"Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	

SOURCE CONTROL BMP INSPECTION FORM				
Date:	**Inspector:**		**Weather:**	
Reason for Inspection:			**Comments:**	
Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
Landscape/Outdoor pesticide Use Continued		☐Review IMP information and provide to landscape and maintenance personnel.	☐No ☐ Yes	
☐Use efficient irrigation systems		☐Inspect irrigation system for leaks and/or malfunctions.	☐No ☐ Yes	
☐Need for future indoor & structural pest control		☐Review Integrated Pest Management information and provide to other maintenance personnel.	☐No ☐ Yes	
☐Pools, spas, ponds, decorative fountains, and other water features.		☐Review and adhere to applicable operational BMPs in Fact Sheet SC-72, “Fountain and Pool Maintenance,” in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
☐Food service		☐Grease traps cleaned, as necessary. ☐See Refuse Areas.	☐No ☐ Yes	
☐Refuse areas		☐Provide adequate number of receptacles.	☐No ☐ Yes	
		☐Inspect receptacles regularly; repair or replace leaky receptacles.	☐No ☐ Yes	
		☐Keep receptacles covered at all times.	☐No ☐ Yes	
		☐Prohibit/prevent dumping of liquid or hazardous wastes.	☐No ☐ Yes	
		☐Post “no hazardous materials” signs.	☐No ☐ Yes	

SOURCE CONTROL BMP INSPECTION FORM				
Date:	**Inspector:**	**Weather:**		
Reason for Inspection:		**Comments:**		
Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
Refuse areas- Continued		☐Inspect and pick up litter daily and clean up spills immediately.	☐No ☐ Yes	
		☐Keep spill control materials available on- site. Review Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
☐Industrial processes.		☐Review and adhere to Fact Sheet SC-10, "Non- Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
☐Outdoor storage of equipment or materials		☐Review and adhere to the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC- 33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
☐Vehicle and Equipment Cleaning		**Follow operational measures to implement the following (if applicable):**		
		☐Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system.	☐No ☐ Yes	

SOURCE CONTROL BMP INSPECTION FORM				
Date:	**Inspector:**	**Weather:**		
Reason for Inspection:		**Comments:**		
Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
Vehicle and Equipment Cleaning Continued		☐Car dealerships and similar may rinse cars with potable water only. Any excess water shall be drained through landscaping and dechlorinated prior to discharge to the storm drain system.	☐No ☐ Yes	
		☐Review and adhere to Fact Sheet SC-21, "Vehicle and Equipment Cleaning," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
☐Vehicle/Equipment Repair and Maintenance		**The following restrictions apply to use the site:**		
		☐No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinse water from parts cleaning into storm drains.	☐No ☐ Yes	
		☐No vehicle fluid removal shall be performed outside a building, Nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.	☐No ☐ Yes	

SOURCE CONTROL BMP INSPECTION FORM

Date:	**Inspector:**	**Weather:**
Reason for Inspection:		**Comments:**

Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
Vehicle/Equipment Repair and Maintenance Continued		☐No person shall leave unattended drip parts or other open containers of chemicals such as vehicle fluid, unless such containers are in use or in an area of secondary containment.	☐No ☐ Yes	
☐Fuel Dispensing Areas		☐The fueling area is to be dry swept routinely.	☐No ☐ Yes	
		☐Review and adhere to the Business Guide Sheet, "Automotive Service—Service Stations" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	
		☐Fueling areas are covered by a canopy.	☐No ☐ Yes	
		☐The canopy does not drain onto the fueling area.	☐No ☐ Yes	
		☐Grading of the area prevents run-on of stormwater to the maximum extent practicable.	☐No ☐ Yes	
☐Loading Docks		☐Move loaded and unloaded items indoors as soon as possible.	☐No ☐ Yes	
		☐Review and adhere to Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐No ☐ Yes	

SOURCE CONTROL BMP INSPECTION FORM				
Date:	**Inspector:**	**Weather:**		
Reason for Inspection:		**Comments:**		
Potential Pollutant Sources	**Location**	**Operational BMPs**	**Maintenance Required**	**Maintenance Performed/Comments**
☐ Fire Sprinkler Test Water		☐ Review the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com	☐ No ☐ Yes	
☐ Miscellaneous Drain or Wash Water • Boiler drain lines Condensate drain lines • Rooftop equipment Drainage sumps • Roofing, gutters, and trim			☐ No ☐ Yes	
☐ Plazas, sidewalks, and parking lots		☐ Plazas, sidewalks, and parking lots shall be swept regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.	☐ No ☐ Yes	

ATTACHMENT 6

SITE MAP

LEGEND

- PROJECT BOUNDARY
- DMA BOUNDARY
- FLOW DIRECTION
- BYPASS STORM DRAIN
- STORM DRAIN
- ON-SITE STORM DRAIN INLETS
- 00.00 ACRES — SUBAREA ACREAGE
- DMA 1 — DMA ICON
- IMPERVIOUS - ROAD/SIDEWALK/ DRIVEWAY
- IMPERVIOUS - ROOF/BUILDING
- PERVIOUS - LANDSCAPE
- BIOFILTRATION BASIN
- B D — HYDROLOGIC SOIL TYPE
- X — POINT OF COMPLIANCE
- STRUCTURAL BMP
- SOIL BOUNDARY
- EXISTING IMPERVIOUS AREA
- DECOMPOST GRANIET
- DISTURBED AREA BOUNDARY

SITE DESIGN BMPs

SD-1 MAINTAIN NATURAL HYDROLOGIC FEATURES
SD-2 CONSERVE NATURAL AREAS, SOILS, VEGETATION
SD-3 MINIMIZE IMPERVIOUS AREAS
SD-4 MINIMIZE SOIL COMPACTION
SD-5 IMPERVIOUS AREA DISPERSION
SD-6 RUNOFF COLLECTION
SD-7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES

SOURCE CONTROL BMPs

SC-1 PREVENTION OF ILLICIT DISCHARGES TO MS4
SC-2 STORM DRAIN STENCILING OR SIGNAGE
SC-6 ADDITIONAL BMPS BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS
SC-6A ON-SITE STORM DRAIN INLETS
SC-6D2 LANDSCAPE/OUTDOOR PESTICIDE USE
SC-6N FIRE SPRINKLE TEST WATER
SC-6O MISCELLEANEOUS DRAIN OR WASH WATER
SC-6P PLAZAS, SIDEWALKS, AND PARKING LOTS

UNDERLYING SOIL GROUP : B & D
APPROXIMATE DEPTH TO GROUNDWATER > 20'
NO CRITICAL COARSE AREAS REQUIRE PRESERVATION

PREPARED BY:
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DMA MAP
PACIFIC SITE

CITY OF OCEANSIDE, CALIFORNIA

MAP 1 OF 2

W.O.# 3087-0010

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ATTACHMENT 7

AS-BUILT DRAWINGS

ATTACHMENT 8

TREATMENT CONTROL BMP INSPECTION AND MAINTENANCE CHECKLIST(S)

Bioretention Area
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Standing Water	When water stands in the bioretention area between storms and does not drain within five days after rainfall.			There should be no areas of standing water once inflow has ceased. Any of the following may apply: sediment or trash blockages removed, improved grade from head to foot of bioretention area, or added underdrains.
2. Trash and Debris Accumulation	Trash and debris accumulated in the bioretention area.			Trash and debris removed from bioretention area and disposed of properly.
3. Sediment	Evidence of sedimentation in bioretention area.			Material removed so that there is no clogging or blockage. Material is disposed of properly.
4. Erosion	Channels have formed around inlets, there are areas of bare soil, and/or other evidence of erosion.			Obstructions and sediment removed so that water flows freely and disperses over a wide area. Obstructions and sediment are disposed of properly.
5. Vegetation	Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.

Biorentention Area - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
6. Mulch	Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 3 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch is even in appearance, at a depth of 3 inches.
7. Miscellaneous	Any condition not covered above that needs attention in order for the bioretention area to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Vegetated Buffer Strip
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
1. Sediment Accumulation on Vegetation	Sediment accumulating near culverts and/or in channels builds up to 75 millimeters (3 inches) at any spot, or it covers vegetation			Remove accumulated sediment deposits. When finished, buffer strip should be level from side to side and drain freely toward outlet. There should be no areas of standing water once inflow has ceased. Dispose of sediment properly.	
2. Standing Water	Water stands in the buffer strip between storms and does not drain within five days after rainfall.			There should be no areas of standing water once inflow has ceased. Any of the following may apply: sediment or trash blockages removed, improved grade from head to foot of buffer strip, removed clogged check dams, added underdrains or converted to a wet buffer strip.	

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
3. Flow spreader (if any)	Flow spreader uneven or clogged such that flows are not uniformly distributed through entire buffer strip width.			Spreader leveled and cleaned so that flows are spread evenly over entire buffer strip width.	
4. Constant Baseflow	When small quantities of water continually flow through the buffer strip, even when it has been dry for weeks, and an eroded, muddy channel has formed in the buffer strip bottom.			No eroded, muddy channel on the bottom. A low-flow pea-gravel drain may be added the length of the buffer strip.	
5. Poor Vegetation Coverage	When planted vegetation is sparse or bare or eroded, patches occur in more than 10% of the buffer strip bottom.			Vegetation coverage in more than 90% of the buffer strip bottom. Determine why growth of planted vegetation is poor and correct that condition. Replant with plugs of vegetation from the upper slope: plant in the buffer strip bottom at 8-inch intervals, or reseed into loosened, fertile soil.	

Vegetated Buffer Strip - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
6. Vegetation	When the planted vegetation becomes excessively tall; when nuisance weeds and other vegetation start to take over.			Vegetation mowed per specifications or maintenance plan, or nuisance vegetation removed so that flow is not impeded. Vegetation should never be mowed lower than the design flow depth. Remove clippings from the buffer strip and dispose appropriately.	
7. Excessive Shading	Growth of planted vegetation is poor because sunlight does not reach buffer strip.			Healthy growth of planted vegetation. If possible, trim back over-hanging limbs and remove brushy vegetation on adjacent slopes.	
8. Inlet/Outlet	Inlet/outlet areas clogged with sediment and/or debris.			Material removed so that there is no clogging or blockage in the inlet and outlet areas.	
9. Trash and Debris Accumulation	Trash and debris accumulated in the buffer strip.			Trash and debris removed from buffer strip. Dispose of trash and debris properly.	

Vegetated Buffer Strip - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
10. Erosion/ Scouring	Eroded or scoured buffer strip bottom due to flow channelization, or higher flows.			No erosion or scouring in buffer strip bottom. For ruts or bare areas less than 12 inches wide, repair the damaged area by filling with crushed gravel. If bare areas are large, generally greater than 12 inches wide, the buffer strip should be re-graded and re-seeded. For smaller bare areas, overseed when bare spots are evident, or take plugs of grass from the upper slope and plant in the buffer strip bottom at 8-inch intervals.	
11. Miscellaneous	Any condition not covered above that needs attention in order for the vegetated buffer strip to function as designed.			Meet the design specifications.	

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Constructed Wetlands
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
General				
Trash & Debris	Trash and debris accumulated in basin at a minimum of once prior to October 1st, once around Feb 1st, and once May 15th. Visual evidence of dumping.			Trash and debris cleared from site and disposed of properly.
Poisonous Vegetation and noxious weeds	Poisonous or nuisance vegetation or noxious weeds, e.g., morning glory, English ivy, reed canary grass, Japanese knotweed, purple loosestrife, blackberry, Scotch broom, poison oak, stinging nettles, or devil's club.			Use Integrated Pest Management techniques to control noxious weeds or invasive species.
Contaminants and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants. Note signs of hydrocarbon buildup such as floating oil on water surface.			No contaminants or pollutants present.

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Rodent Holes	If facility acts as a dam or berm, any evidence of rodent holes, or any evidence of water piping through dam or berm via rodent holes.			The design specifications are not compromised by holes. Any rodent control activities are in accordance with applicable laws and do not affect any protected species.
Insects	Insects such as wasps and hornets interfere with maintenance activities. Where permitted by CA DFG, or other agency regulations, stock regularly with mosquito fish (Gambusia spp.) to enhance natural mosquito and midge control. Maintain vegetation to assist Gambusia spp. movements to control mosquitoes, as well as to provide access for vector inspectors. Maintain emergent and perimeter shoreline vegetation as well as site and road access to facilitate vector surveillance and control activities.			Insects do not interfere with maintenance activities. No mosquitoes or other vectors present in unusual abundance.

Constructed Wetlands Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Vegetation	Inspect for invasive vegetation, differential settlement, cracking; erosion, leakage, or tree growth on the embankment. Correct observed problems as necessary. Mow side slopes and remove grass clippings every other month or as necessary. Supplement wetland plants if a significant portion have not established (at least 50% of the surface area) on an annual basis. Remove nuisance plant species.			Wetland vegetation should be at proper vigor and density, no nuisance or noxious weeds or invasive species should be visible, and growth should not hinder physical characteristics or requirements of wetland area.
Tree/Brush Growth and Hazard Trees	Growth does not allow maintenance access or interferes with maintenance activity. Vegetation harvesting should occur preferably between June to September (CASCA TC-21) Dead, diseased, or dying trees.			Trees do not hinder maintenance activities. Remove hazard trees as approved by the City. (Use a certified Arborist to determine health of tree or removal requirements).

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Drainage time	Standing water remains in basin more than five days.			Correct any circumstances that restrict the flow of water from the system. Restore drainage to design condition. If the problem cannot be corrected and problems with standing water recur, then mosquitoes should be controlled with larvicides, applied by a licensed pesticide applicator.
Outfall structure	Debris or silt build-up obstructs an outfall structure.			Remove debris and/or silt build-up and dispose of properly.
Side Slopes				
Erosion	Eroded over 2 in. deep where cause of damage is still present or where there is potential for continued erosion. Any erosion on a compacted berm embankment.			Cause of erosion is managed appropriately. Side slopes or berm are restored to design specifications, as needed.
Storage Area				

Constructed Wetlands Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Sediment	Monitor for sediment accumulation in the facility and forebay. Remove accumulated sediment in the forebay and regrade about every 5-7 years or when the accumulated sediment volume exceeds 10 percent of the basin volume. Sediment removal may not be required in the main pool area for as long as 20 years.			Sediment cleaned out to designed basin shape and depth; basin reseeded if necessary to control erosion. Sediment disposed of properly.
Liner (If Applicable)	Liner is visible and has more than three 1/4-inch holes in it.			Liner repaired or replaced. Liner is fully covered.
Emergency Overflow/Spillway and Berms				
Settlement	Berm settlement 4 inches lower than the design elevation.			Dike is built back to the design elevation.

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Tree Growth	Tree growth on berms or emergency spillway >4 ft in height or covering more than 10% of spillway.			Trees should be removed. If root system is small (base less than 4 inches) the root system may be left in place. Otherwise the roots should be removed and the berm restored. A civil engineer should be consulted for proper berm/spillway restoration.
Emergency Overflow/ Spillway	Rock is missing and soil is exposed at top of spillway or outside slope.			Rocks and pad depth are restored to design standards.
Debris Barriers (*e.g.*, Trash Racks)				
Trash and Debris	Trash or debris is plugging openings in the barrier.			Trash or debris is removed and disposed of properly.
Damaged/ Missing Bars	Bars are missing, loose, bent out of shape, or deteriorating due to excessive rust.			Bars are repaired or replaced to allow proper functioning of trash rack.
Inlet/Outlet Pipe	Debris barrier is missing or not attached to pipe.			Debris barrier is repaired or replaced to allow proper functioning of trash rack.
Fencing and Gates				
Missing or broken parts	Any defect in or damage to the fence or gate that permits easy entry to a facility.			Fencing and gate are restored to design specifications.

Constructed Wetlands Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Deteriorating Paint or Protective Coating	Part or parts that have a rusting or scaling condition that has affected structural adequacy.			Paint or protective coating is sufficient to protect structural adequacy of fence or gate.
Flow Duration Control Outlet (if included in design to meet Hydromodification Management Standard) [[==refer to any attachments with additional provisions==]]				
Risers, orifices and screens	Any debris or clogging			Restore unobstructed flow through discharge structure; to meet original design; dispose of debris properly.
Miscellaneous				
Miscellaneous	Any condition not covered above that needs attention to restore extended detention basin to design conditions.			Meets the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Detention Basin
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
General				
Trash & Debris	Trash and debris accumulated in basin. Visual evidence of dumping.			Trash and debris cleared from site and disposed of properly.
Poisonous Vegetation and noxious weeds	Poisonous or nuisance vegetation or noxious weeds, e.g., morning glory, English ivy, reed canary grass, Japanese knotweed, purple loosestrife, blackberry, Scotch broom, poison oak, stinging nettles, or devil's club.			Use Integrated Pest Management techniques to control noxious weeds or invasive species.
Contaminants and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants.			No contaminants or pollutants present.

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Rodent Holes	If facility acts as a dam or berm, any evidence of rodent holes, or any evidence of water piping through dam or berm via rodent holes.			The design specifications are not compromised by holes. Any rodent control activities are in accordance with applicable laws and do not affect any protected species.
Insects	Insects such as wasps and hornets interfere with maintenance activities.			Insects do not interfere with maintenance activities.
Tree/Brush Growth and Hazard Trees	Growth does not allow maintenance access or interferes with maintenance activity. Dead, diseased, or dying trees.			Trees do not hinder maintenance activities. Remove hazard trees as approved by the City. (Use a certified Arborist to determine health of tree or removal requirements).

Detention Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Drainage time	Standing water remains in basin more than five days.			Correct any circumstances that restrict the flow of water from the system. Restore drainage to design condition. If the problem cannot be corrected and problems with standing water recur, then mosquitoes should be controlled with larvicides, applied by a licensed pesticide applicator.
Outfall structure	Debris or silt build-up obstructs an outfall structure.			Remove debris and/or silt build-up and dispose of properly.
Side Slopes				
Erosion	Eroded over 2 in. deep where cause of damage is still present or where there is potential for continued erosion. Any erosion on a compacted berm embankment.			Cause of erosion is managed appropriately. Side slopes or berm are restored to design specifications, as needed.

Detention Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Storage Area				
Sediment	Accumulated sediment >10% of designed basin depth or affects inletting or outletting condition of the facility.			Sediment cleaned out to designed basin shape and depth; basin reseeded if necessary to control erosion. Sediment disposed of properly.
Liner (If Applicable)	Liner is visible and has more than three 1/4-inch holes in it.			Liner repaired or replaced. Liner is fully covered.
Emergency Overflow/ Spillway and Berms				
Settlement	Berm settlement 4 inches lower than the design elevation.			Dike is built back to the design elevation.
Tree Growth	Tree growth on berms or emergency spillway >4 ft in height or covering more than 10% of spillway.			Trees should be removed. If root system is small (base less than 4 inches) the root system may be left in place. Otherwise the roots should be removed and the berm restored. A civil engineer should be consulted for proper berm/spillway restoration.

Detention Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Emergency Overflow/ Spillway	Rock is missing and soil is exposed at top of spillway or outside slope.			Rocks and pad depth are restored to design standards.
Debris Barriers (e.g., Trash Racks)				
Trash and Debris	Trash or debris is plugging openings in the barrier.			Trash or debris is removed and disposed of properly.
Damaged/ Missing Bars	Bars are missing, loose, bent out of shape, or deteriorating due to excessive rust.			Bars are repaired or replaced to allow proper functioning of trash rack.
Inlet/Outlet Pipe	Debris barrier is missing or not attached to pipe.			Debris barrier is repaired or replaced to allow proper functioning of trash rack.
Fencing and Gates				
Missing or broken parts	Any defect in or damage to the fence or gate that permits easy entry to a facility.			Fencing and gate are restored to design specifications.
Deteriorating Paint or Protective Coating	Part or parts that have a rusting or scaling condition that has affected structural adequacy.			Paint or protective coating is sufficient to protect structural adequacy of fence or gate.

Detention Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Flow Duration Control Outlet (if included in design to meet Hydromodification Management Standard) [[==refer to any attachments with additional provisions==]]				
Risers, orifices and screens	Any debris or clogging			Restore unobstructed flow through discharge structure; to meet original design; dispose of debris properly.
Miscellaneous				
Miscellaneous	Any condition not covered above that needs attention to restore extended detention basin to design conditions.			Meets the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Flow-Through Planter
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Vegetation	Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.
2. Soil	Soil too deep or too shallow.			Soil is at proper depth (per soil specifications) for optimum filtration and flow.
3. Mulch	Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 3 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch is even in appearance, at a depth of 3 inches.
4. Sediment, Trash and Debris Accumulation	Sediment, trash and debris accumulated in the flow-through planter. Planter does not drain as specified.			Sediment, trash and debris removed from flow-through planter and disposed of properly. Planter drains within 3-4 hours.

Flow-Through Planter - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
5. Clogs	Soil too deep or too shallow. Sediment, trash and debris accumulated in the flow-through planter. Planter does not drain within five days after rainfall.			Planter drains per design specifications.
6. Downspouts and Sheet Flow	Flow to planter is impeded. Downspouts are clogged or pipes are damaged. Splash blocks and rocks in need of repair, replacement or replenishment.			Downspouts and sheet flow is conveyed efficiently to the planter.
7. Overflow Pipe	Does not safely convey excess flows to storm drain. Piping damaged or disconnected.			Overflow pipe conveys excess flow to storm drain efficiently.
8. Structural Soundness	Planter is cracked, leaking or falling apart.			Cracks and leaks are repaired and planter is structurally sound.
9. Miscellaneous	Any condition not covered above that needs attention in order for the flow-through planter to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Hydrodynamic Separators
INSPECTION AND MAINTENANCE CHECKLIST

Property Applicant: _____ Property Address: _____

Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

System Type: _____

Installer/Contractor: _____ Overall Facility Score*: _____

Manufacturer: _____ Inspector(s): _____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Sediment, trash and debris accumulation on Filter	Sediment, trash and debris accumulated in the sedimentation basin, riser pipe, retention pipes and filter bed. Filter does not drain as specified.			Sediment, trash and debris removed from sedimentation basin, riser pipe and filter bed and disposed of properly. Filter drains per design specifications. Empty cartridge should be reassembled and reinstalled.
2. Standing water	Manufactured treatment measure does not drain within five days after rainfall.			Clogs removed from filters, sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.
3. Mosquitoes	Evidence of mosquito larvae in manufactured treatment measure.			Clogs removed from sedimentation basin, riser pipe and filter bed. Filter drains per

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
				design specifications.
4. Miscellaneous	Any condition not covered above that needs attention in order for the manufactured treatment measure to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Infiltration Trench
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Standing Water	When water stands in the infiltration trench between storms and does not drain within 5 days after rainfall.			There should be no areas of standing water once inflow has ceased. Any of the following may apply: sediment or trash blockages removed, improved grade from head to foot of infiltration trench, removed clogging at check dams, or added underdrains.
2. Trash and Debris Accumulation	Trash and debris accumulated in the infiltration trench.			Trash and debris removed from infiltration trench and disposed of properly.
3. Sediment	Evidence of sedimentation in trench. Less than 50% storage volume remaining in sediment traps, forebays or pretreatment swales.			Material removed and disposed of properly so that there is no clogging or blockage.
4. Inlet/Outlet	Inlet/outlet areas clogged with sediment or debris, and/or eroded.			Material removed and disposed of properly so that there is no clogging or blockage in the inlet and outlet areas.
5. Overflow	Clogged with sediment or			Material removed and disposed

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
Spillway	debris, and/or eroded.			of properly so that there is no clogging or blockage, and trench is restored to design condition.
6. Filter Fabric	Annual inspection, by removing a small section of the top layer, shows sediment accumulation that may lead to trench failure.			Replace filter fabric, as needed, to restore infiltration trench to design condition.
7. Observation Well	Routine monitoring of observation well indicates that trench is not draining within specified time or observation well cap is missing.			Restore trench to design conditions. Observation well cap is sealed.
8. Miscellaneous	Any condition not covered above that needs attention in order for the infiltration trench to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Manufactured Stormwater Treatment Measure
INSPECTION AND MAINTENANCE CHECKLIST

Property Applicant: _____ Property Address: _____

Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

System Type: _____

Installer/Contractor: _____ Overall Facility Score*: _____

Manufacturer: _____ Inspector(s): _____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Sediment, trash and debris accumulation on Filter	Sediment, trash and debris accumulated in the sedimentation basin, riser pipe, retention pipes and filter bed. Filter does not drain as specified.			Sediment, trash and debris removed from sedimentation basin, riser pipe and filter bed and disposed of properly. Filter drains per design specifications. Empty cartridge should be reassembled and reinstalled.
2. Standing water	Manufactured treatment measure does not drain within five days after rainfall.			Clogs removed from filters, sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.

Manufactured Treatment System O&M - Inspection and Maintenance Checklist

Property Address: _____

Date of Inspection:_____

Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
3. Mosquitoes	Evidence of mosquito larvae in manufactured treatment measure.			Clogs removed from sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.
4. Miscellaneous	Any condition not covered above that needs attention in order for the manufactured treatment measure to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.

**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Non-Proprietary Media Filter
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
1. Sediment, trash and debris accumulation	Sediment, trash and debris accumulated in the sedimentation basin, riser pipe and filter bed. Filter does not drain as specified.			Sediment, trash and debris removed from sedimentation basin, riser pipe and filter bed and disposed of properly. Filter drains per design specifications.	
2. Standing water	Non-proprietary media filter does not drain within three days after rainfall.			Clogs removed from sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.	
3. Sediment	Evidence of sedimentation in bioretention area.			Material removed so that there is no clogging or blockage. Material is disposed of properly.	
4. Erosion	Channels have formed around inlets; there are areas of bare soil, and/or other evidence of erosion.			Obstructions and sediment removed so that water flows freely and disperses over a wide area. Obstructions and sediment are disposed of	

Non-Proprietary Media Filter - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
Erosion Cont'd				properly.	
5. Vegetation	Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.	
6. Mulch	Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 3 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch is even in appearance, at a depth of 3 inches.	
7. Mosquitoes	Evidence of mosquito larvae in non-proprietary media filter.			Clogs removed from sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.	
8. Filter bed	Overall media depth 300 millimeters (12 inches) or less.			Media depth restored to 450 millimeters (18 inches).	
9. Miscellaneous	Any condition not covered above that needs attention in order for the non-proprietary media filter to function as designed.			Meet the design specifications.	

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary

Pervious Pavement
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
1. Sediment, trash and debris accumulation	Sediment, trash and debris accumulated in the pervious pavement valley gutter and downstream catch basin. Pavement does not drain as specified.			Sediment, trash and debris removed from pervious pavement and catch basin and disposed of properly. Pavement drains per design specifications.	
2. Standing water	Pervious Pavement does not drain within three days after rainfall.			Clogs removed from pervious pavement. Pavement drains per design specifications.	
3. Sediment	Evidence of sedimentation in Pervious Pavement.			Material removed so that there is no clogging or blockage. Material is disposed of properly.	
4. Mosquitoes	Evidence of mosquito larvae in Pervious Pavement.			Clogs removed from pervious pavement. Pavement drains per design specifications.	

Pervious Pavement - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
5. Miscellaneous	Any condition not covered above that needs attention in order for the non-proprietary media filter to function as designed.			Meet the design specifications.	

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Trash Racks
INSPECTION AND MAINTENANCE CHECKLIST

Property Applicant: _____ Property Address: _____

Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

System Type: _____

Installer/Contractor: _____ Overall Facility Score*: _____

Manufacturer: _____ Inspector(s): _____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
1. Sediment, trash and debris accumulation on Filter	Sediment, trash and debris accumulated in the sedimentation basin, riser pipe, retention pipes and filter bed. Filter does not drain as specified.			Sediment, trash and debris removed from sedimentation basin, riser pipe and filter bed and disposed of properly. Filter drains per design specifications. Empty cartridge should be reassembled and reinstalled.
2. Standing water	Manufactured treatment measure does not drain within five days after rainfall.			Clogs removed from filters, sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.
3. Mosquitoes	Evidence of mosquito larvae in manufactured treatment measure.			Clogs removed from sedimentation basin, riser pipe and filter bed. Filter drains per design specifications.

Trash Racks - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed
4. Miscellaneous	Any condition not covered above that needs attention in order for the manufactured treatment measure to function as designed.			Meet the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Tree Well Filter
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
1. Vegetation	Vegetation is dead, diseased and/or overgrown.			Vegetation is healthy and attractive in appearance.	
2. Planting Mix	Planting mix too deep or too shallow.			Planting mix is at proper depth for optimum filtration and flow.	
3. Mulch	Mulch is missing or patchy in appearance. Areas of bare earth are exposed, or mulch layer is less than 3 inches in depth.			All bare earth is covered, except mulch is kept 6 inches away from trunks of trees and shrubs. Mulch is even in appearance, at a depth of 3 inches.	
4. Trash and Debris Accumulation	Trash and debris accumulated in the tree well filter. Filter does not drain as specified.			Trash and debris removed from tree well filter and disposed of properly. Filter drains per design specifications.	
5. Sediment	Evidence of sedimentation in tree well filter.			Material removed so that there is no clogging or blockage. Sediment is disposed of properly.	

Tree Well Filter - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
6. Standing Water	When water stands in the tree well filter between storms and does not drain within five days after rainfall.			There should be no areas of standing water once inflow has ceased. Any of the following may apply: sediment or trash blockages removed, overflow pipe repaired.	
7. Overflow Pipe	Does not safely convey excess flows to storm drain. Piping damaged or disconnected.			Overflow pipe conveys excess flow to storm drain efficiently.	
8. Miscellaneous	Any condition not covered above that needs attention in order for the tree well filter to function as designed.			Meet the design specifications.	

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Vegetated Swale Maintenance Plan
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
Sediment Accumulation on Vegetation	Sediment accumulating near culverts and/or in channels builds up to 75 millimeters (3 inches) at any spot, or it covers vegetation			When finished, swale should be level from side to side and drain freely toward outlet. There should be no areas of standing water once inflow has ceased and sediment is disposed of properly.	
Standing Water	When water stands in the swale between storms and does not drain within 5 days after rainfall.			There should be no areas of standing water once inflow has ceased. Any of the following may apply: sediment or trash blockages removed, improved grade from head to foot of swale, removed clogged check dams, added underdrains or converted to a wet swale.	

Vegetated Swale - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
Flow spreader (if any)	Flow spreader uneven or clogged so that flows are not uniformly distributed through entire swale width.			Spreader leveled and cleaned so that flows are spread evenly over entire swale width.	
Constant Baseflow	When small quantities of water continually flow through the swale, even when it has been dry for weeks, and an eroded, muddy channel has formed in the swale bottom.			No eroded, muddy channel on the bottom. A low-flow pea-gravel drain may be added the length of the swale.	
Poor Vegetation Coverage	When planted vegetation is sparse or bare or eroded patches occur in more than 10% of the swale bottom.			Vegetation coverage in more than 90% of the swale bottom. Determine why growth of planted vegetation is poor and correct that condition. Re-plant with plugs of vegetation from the upper slope: plant in the swale bottom at 8-inch intervals, or re-seed into loosened, fertile soil.	

Vegetated Swale - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
Vegetation	When the planted vegetation becomes excessively tall; when nuisance weeds and other vegetation start to take over.			Vegetation mowed per specifications or maintenance plan, or nuisance vegetation removed so that flow is not impeded. Vegetation should never be mowed lower than the design flow depth. Remove clippings from the swale and dispose appropriately.	
Excessive Shading	Growth of planted vegetation is poor because sunlight does not reach swale.			Healthy growth of planted vegetation. If possible, trim back over-hanging limbs and remove brushy vegetation on adjacent slopes.	
Inlet/Outlet	Inlet/outlet areas clogged with sediment and/or debris.			Material removed so that there is no clogging or blockage in the inlet and outlet areas.	
Trash and Debris Accumulation	Trash and debris accumulated in the swale.			Trash and debris removed from swale.	

Vegetated Swale - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if needed maintenance was not conducted, note when it will be done)	Results Expected When Maintenance Is Performed	Date Complete / Initial
Erosion/ Scouring	Eroded or scoured swale bottom due to flow channelization, or higher flows.			No erosion or scouring in swale bottom. For ruts or bare areas less than 12 inches wide, repair the damaged area by filling with crushed gravel. If bare areas are large, generally greater than 12 inches wide, the swale should be re-graded and re-seeded. For smaller bare areas, overseed when bare spots are evident, or take plugs of grass from the upper slope and plant in the swale bottom at 8-inch intervals.	
Miscellaneous	Any condition not covered above that needs attention in order for the vegetated swale to function as designed.			Meet the design specifications.	

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

Wet Pond
INSPECTION AND MAINTENANCE CHECKLIST

Property Address: _____ Property Applicant: _____

Treatment Measure No.: _____ Date of Inspection: _____ Type of Inspection: ☐ Monthly ☐ Pre-Wet Season ☐ After heavy runoff ☐ End of Wet Season

Inspector(s): _____ Overall Facility Score*:_____ ☐ Other:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
General				
Trash & Debris	Trash and debris accumulated in basin at a minimum of once prior to October 1st, once around Feb 1st, and once May 15th. Visual evidence of dumping.			Trash and debris cleared from site and disposed of properly.
Poisonous Vegetation and noxious weeds	Poisonous or nuisance vegetation or noxious weeds, e.g., morning glory, English ivy, reed canary grass, Japanese knotweed, purple loosestrife, blackberry, Scotch broom, poison oak, stinging nettles, or devil's club.			Use Integrated Pest Management techniques to control noxious weeds or invasive species.
Contaminants and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants.			No contaminants or pollutants present.

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Rodent Holes	If facility acts as a dam or berm, any evidence of rodent holes, or any evidence of water piping through dam or berm via rodent holes.			The design specifications are not compromised by holes. Any rodent control activities are in accordance with applicable laws and do not affect any protected species.
Insects	Insects such as wasps and hornets interfere with maintenance activities. Mosquitoes and other vectors Where permitted by CA DFG, or other agency regulations, stock regularly with mosquito fish (Gambusia spp.) to enhance natural mosquito and midge control. Maintain vegetation to assist Gambusia spp. movements to control mosquitoes, as well as to provide access for vector inspectors. Maintain emergent and perimeter shoreline vegetation as well as site and road access to facilitate vector surveillance and control activities.			Insects do not interfere with maintenance activities. No mosquitoes or other vectors present in unusual abundance.

Wet Pond Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Tree/Brush Growth and Hazard Trees	Growth does not allow maintenance access or interferes with maintenance activity. Vegetation harvesting should occur preferably between June to September (CASCA TC-20) Dead, diseased, or dying trees.			Trees do not hinder maintenance activities. Remove hazard trees as approved by the City. (Use a certified Arborist to determine health of tree or removal requirements).
Drainage time	Standing water remains in basin more than five days.			Correct any circumstances that restrict the flow of water from the system. Restore drainage to design condition. If the problem cannot be corrected and problems with standing water recur, then mosquitoes should be controlled with larvicides, applied by a licensed pesticide applicator.
Outfall structure	Debris or silt build-up obstructs an outfall structure.			Remove debris and/or silt build-up and dispose of properly.

Wet Pond Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Side Slopes				
Erosion	Eroded over 2 in. deep where cause of damage is still present or where there is potential for continued erosion. Any erosion on a compacted berm embankment.			Cause of erosion is managed appropriately. Side slopes or berm are restored to design specifications, as needed.
Storage Area				
Sediment	Remove accumulated sediment in the forebay and regrade about every 5-7 years or when the accumulated sediment volume exceeds 10 percent of the basin volume. Sediment removal may not be required in the main pool area for as long as 20 years.			Sediment cleaned out to designed basin shape and depth; basin reseeded if necessary to control erosion. Sediment disposed of properly.
Liner (If Applicable)	Liner is visible and has more than three 1/4-inch holes in it.			Liner repaired or replaced. Liner is fully covered.
Emergency Overflow/ Spillway and Berms				
Settlement	Berm settlement 4 inches lower than the design elevation.			Dike is built back to the design elevation.

Wet Pond Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Tree Growth	Tree growth on berms or emergency spillway >4 ft in height or covering more than 10% of spillway.			Trees should be removed. If root system is small (base less than 4 inches) the root system may be left in place. Otherwise the roots should be removed and the berm restored. A civil engineer should be consulted for proper berm/spillway restoration.
Emergency Overflow/ Spillway	Rock is missing and soil is exposed at top of spillway or outside slope.			Rocks and pad depth are restored to design standards.
Debris Barriers (*e.g.,* Trash Racks)				
Trash and Debris	Trash or debris is plugging openings in the barrier.			Trash or debris is removed and disposed of properly.
Damaged/ Missing Bars	Bars are missing, loose, bent out of shape, or deteriorating due to excessive rust.			Bars are repaired or replaced to allow proper functioning of trash rack.
Inlet/Outlet Pipe	Debris barrier is missing or not attached to pipe.			Debris barrier is repaired or replaced to allow proper functioning of trash rack.
Fencing and Gates				
Missing or broken parts	Any defect in or damage to the fence or gate that permits easy entry to a facility.			Fencing and gate are restored to design specifications.

Wet Pond Basin - Inspection and Maintenance Checklist
Property Address: _____

Date of Inspection:_____
Treatment Measure No.:_____

Defect	Conditions When Maintenance Is Needed	Maintenance Score**	Comments (Describe maintenance completed and if any needed maintenance was not conducted, note when it will be done.)	Results Expected When Maintenance Is Performed
Deteriorating Paint or Protective Coating	Part or parts that have a rusting or scaling condition that has affected structural adequacy.			Paint or protective coating is sufficient to protect structural adequacy of fence or gate.
Flow Duration Control Outlet (if included in design to meet Hydromodification Management Standard) [[==refer to any attachments with additional provisions==]]				
Risers, orifices and screens	Any debris or clogging			Restore unobstructed flow through discharge structure; to meet original design; dispose of debris properly.
Miscellaneous				
Miscellaneous	Any condition not covered above that needs attention to restore extended detention basin to design conditions.			Meets the design specifications.

*Overall Facility Score = Worst Score from all Defect Items Noted.
**Scores: 0 = OK, 1 = Monitor, 2 = Routine Maintenance, 3 = Immediate Repair Necessary.

ATTACHMENT 9

MAINTENANCE SCHEDULE

Filterra Owner's Manual

filterra®

Bioretention Systems

CONTECH®

ENGINEERED SOLUTIONS

filterra®
Bioretention Systems

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Enclosed

Local Area Filterra Plant List

CONTECH®
ENGINEERED SOLUTIONS

Introduction

Thank you for your purchase of the Filterra® Bioretention System. Filterra is a specially engineered stormwater treatment system incorporating high performance biofiltration media to remove pollutants from stormwater runoff. The system's biota (vegetation and soil microorganisms) then further breakdown and absorb captured pollutants. All components of the system work together to provide a sustainable long-term solution for treating stormwater runoff.

The Filterra system has been delivered to you with protection in place to resist intrusion of construction related sediment which can contaminate the biofiltration media and result in inadequate system performance. These protection devices are intended as a best practice and cannot fully prevent contamination. It is the purchaser's responsibility to provide adequate measures to prevent construction related runoff from entering the Filterra system.

Included with your purchase is Activation of the Filterra system by the manufacturer as well as a 1-year warranty from delivery of the system and 1-year of routine maintenance (mulch replacement, debris removal, and pruning of vegetation) up to twice during the first year after activation.

Design and Installation

Each project presents different scopes for the use of Filterra systems. Information and help may be provided to the design engineer during the planning process. Correct Filterra box sizing (by rainfall region) is essential to predict pollutant removal rates for a given area. The engineer shall submit calculations for approval by the local jurisdiction. The contractor is responsible for the correct installation of Filterra units as shown in approved plans. A comprehensive installation manual is available at www.ContechES.com.

Activation Overview

Activation of the Filterra system is a procedure completed by the manufacturer to place the system into working condition. This involves the following items:

- Removal of construction runoff protection devices
- Planting of the system's vegetation
- Placement of pretreatment mulch layer using mulch certified for use in Filterra systems.

Activation MUST be provided by the manufacturer to ensure proper site conditions are met for Activation, proper installation of the vegetation, and use of pretreatment mulch certified for use in Filterra systems.

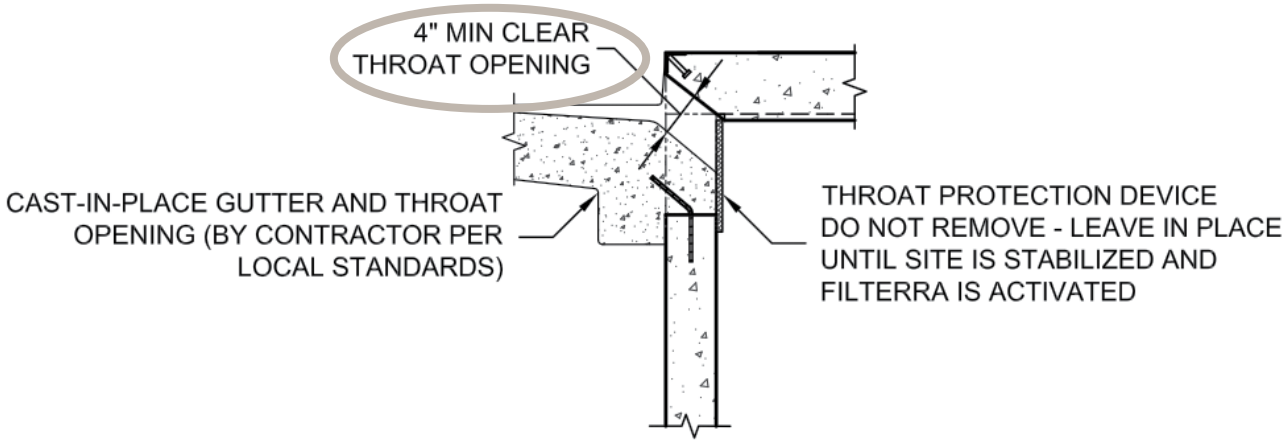
Minimum Requirements

The minimum requirements for Filterra Activation are as follows:

1. The site landscaping must be fully stabilized, i.e. full landscaping installed and some grass cover (not just straw and seed) is required to reduce sediment transport. Construction debris and materials should be removed from surrounding area.

2. Final paving must be completed. Final paving ensures that paving materials will not enter and contaminate the Filterra system during the paving process, and that the plant will receive runoff from the drainage area, assisting with plant survival for the Filterra system.

3. Filterra throat opening should be at least 4" in order to ensure adequate capacity for inflow and debris.



An Activation Checklist is included on page 12 to ensure proper conditions are met for Contech to perform the Activation services. A charge of $500.00 will be invoiced for each Activation visit requested by Customer where Contech determines that the site does not meet the conditions required for Activation.

Filterra Plant Selection Overview

A Plant List has been enclosed with this packet highlighting recommended plants for Filterra systems in your area. Keep in mind that plants are subject to availability due to seasonality and required minimum size for the Filterra system. Plants installed in the Filterra system are container plants (max 15 gallon) from nursery stock and will be immature in height and spread at Activation.

It is the responsibility of the owner to provide adequate irrigation when necessary to the plant of the Filterra system.

The "Planting Requirements for Filterra Systems" document is included as an appendix and discusses proper selection and care of the plants within Filterra systems.

Warranty Overview

Refer to the Contech Engineered Solutions LLC Stormwater Treatment System LIMITED WARRANTY for further information. The following conditions may void the Filterra system's warranty and waive the manufacturer provided Activation and Maintenance services:

- Unauthorized activation or performance of any of the items listed in the activation overview
- Any tampering, modifications or damage to the Filterra system or runoff protection devices
- Removal of any Filterra system components
- Failure to prevent construction related runoff from entering the Filterra system
- Failure to properly store and protect any Filterra components (including media and underdrain stone) that may be shipped separately from the vault

Routine Maintenance Guidelines

With proper routine maintenance, the biofiltration media within the Filterra system should last as long as traditional bioretention media. Routine maintenance is included by the manufacturer on all Filterra systems for the first year after activation. This includes a maximum of 2 visits to remove debris, replace pretreatment mulch, and prune the vegetation. More information is provided in the Operations and Maintenance Guidelines. Some Filterra systems also contain pretreatment or outlet bays. Depending on site pollutant loading, these bays may require periodic removal of debris, however this is not included in the first year of maintenance, and would likely not be required within the first year of operation.

These services, as well as routine maintenance outside of the included first year, can be provided by certified maintenance providers listed on the Contech website. Training can also be provided to other stormwater maintenance or landscape providers.

Why Maintain?

All stormwater treatment systems require maintenance for effective operation. This necessity is often incorporated in your property's permitting process as a legally binding BMP maintenance agreement. Other reasons to maintain are:

- Avoiding legal challenges from your jurisdiction's maintenance enforcement program.
- Prolonging the expected lifespan of your Filterra media.
- Avoiding more costly media replacement.
- Helping reduce pollutant loads leaving your property.

Simple maintenance of the Filterra is required to continue effective pollutant removal from stormwater runoff before discharge into downstream waters. This procedure will also extend the longevity of the living biofilter system. The unit will recycle and accumulate pollutants within the biomass, but is also subjected to other materials entering the inlet. This may include trash, silt and leaves etc. which will be contained above the mulch layer. Too much silt may inhibit the Filterra's flow rate, which is the reason for site stabilization before activation. Regular replacement of the mulch stops accumulation of such sediment.

When to Maintain?

Contech includes a 1-year maintenance plan with each system purchase. Annual included maintenance consists of a maximum of two (2) scheduled visits. Additional maintenance may be necessary depending on sediment and trash loading (by Owner or at additional cost). The start of the maintenance plan begins when the system is activated.

Maintenance visits are scheduled seasonally; the spring visit aims to clean up after winter loads including salts and sands while the fall visit helps the system by removing excessive leaf litter.

It has been found that in regions which receive between 30-50 inches of annual rainfall, (2) two visits are generally required; regions with less rainfall often only require (1) one visit per annum. Varying land uses can affect maintenance frequency; e.g. some fast food restaurants require more frequent trash removal. Contributing drainage areas which are subject to new development wherein the recommended erosion and sediment control measures have not been implemented may require additional maintenance visits.

Some sites may be subjected to extreme sediment or trash loads, requiring more frequent maintenance visits. This is the reason for detailed notes of maintenance actions per unit, helping the Supplier and Owner predict future maintenance frequencies, reflecting individual site conditions.

Owners must promptly notify the (maintenance) Supplier of any damage to the plant(s), which constitute(s) an integral part of the bioretention technology. Owners should also advise other landscape or maintenance contractors to leave all maintenance to the Supplier (i.e. no pruning or fertilizing) during the first year.

Exclusion of Services

Clean up due to major contamination such as oils, chemicals, toxic spills, etc. will result in additional costs and are not covered under the Supplier maintenance contract. Should a major contamination event occur the Owner must block off the outlet pipe of the Filterra (where the cleaned runoff drains to, such as drop inlet) and block off the throat of the Filterra. The Supplier should be informed immediately.

Maintenance Visit Summary

Each maintenance visit consists of the following simple tasks (detailed instructions below).

1. Inspection of Filterra and surrounding area
2. Removal of tree grate and erosion control stones
3. Removal of debris, trash and mulch
4. Mulch replacement
5. Plant health evaluation and pruning or replacement as necessary
6. Clean area around Filterra
7. Complete paperwork

Maintenance Tools, Safety Equipment and Supplies

Ideal tools include: camera, bucket, shovel, broom, pruners, hoe/rake, and tape measure. Appropriate Personal Protective Equipment (PPE) should be used in accordance with local or company procedures. This may include impervious gloves where the type of trash is unknown, high visibility clothing and barricades when working in close proximity to traffic and also safety hats and shoes. A T-Bar or crowbar should be used for moving the tree grates (up to 170 lbs ea.). Most visits require minor trash removal and a full replacement of mulch. See below for actual number of bagged mulch that is required in each media bay size. Mulch should be a double shredded, hardwood variety. Some visits may require additional Filterra engineered soil media available from the Supplier.

Box Length	Box Width	Filter Surface Area (ft^2)	Volume at 3" (ft^3)	# of 2 ft^3 Mulch Bags
4	4	16	4	2
6	4	24	6	3
8	4	32	8	4
6	6	36	9	5
8	6	48	12	6
10	6	60	15	8
12	6	72	18	9
13	7	91	23	12

Maintenance Visit Procedure

Keep sufficient documentation of maintenance actions to predict location specific maintenance frequencies and needs. An example Maintenance Report is included in this manual.

1. Inspection of Filterra and surrounding area

- Record individual unit before maintenance with photograph (numbered). Record on Maintenance Report (see example in this document) the following:

Record on Maintenance Report the following:

Standing Water	yes | no
Damage to Box Structure	yes | no
Damage to Grate	yes | no
Is Bypass Clear	yes | no

If yes answered to any of these observations, record with close-up photograph (numbered).

2. Removal of tree grate and erosion control stones

- Remove cast iron grates for access into Filterra box.
- Dig out silt (if any) and mulch and remove trash & foreign items.

3. Removal of debris, trash and mulch

Record on Maintenance Report the following:

Silt/Clay	yes | no
Cups/ Bags	yes | no
Leaves	yes | no
Buckets Removed	_____

- After removal of mulch and debris, measure distance from the top of the Filterra engineered media soil to the top of the top slab. Compare the measured distance to the distance shown on the approved Contract Drawings for the system. Add Filterra media (not top soil or other) to bring media up as needed to distance indicated on drawings.

Record on Maintenance Report the following:

Distance to Top of Top Slab (inches)	_____
Inches of Media Added	_____

4. Mulch replacement

- Add double shredded mulch evenly across the entire unit to a depth of 3".
- Refer to Filterra Mulch Specifications for information on acceptable sources.
- Ensure correct repositioning of erosion control stones by the Filterra inlet to allow for entry of trash during a storm event.
- Replace Filterra grates correctly using appropriate lifting or moving tools, taking care not to damage the plant.

5. Plant health evaluation and pruning or replacement as necessary

- Examine the plant's health and replace if necessary.
- Prune as necessary to encourage growth in the correct directions

Record on Maintenance Report the following:

Height above Grate	_____ (ft)
Width at Widest Point	_____ (ft)
Health	healthy | unhealthy
Damage to Plant	yes | no
Plant Replaced	yes | no

6. Clean area around Filterra

- Clean area around unit and remove all refuse to be disposed of appropriately.

7. Complete paperwork

- Deliver Maintenance Report and photographs to appropriate location (normally Contech during maintenance contract period).
- Some jurisdictions may require submission of maintenance reports in accordance with approvals. It is the responsibility of the Owner to comply with local regulations.

Maintenance Checklist

Drainage System Failure	Problem	Conditions to Check	Condition that Should Exist	Actions
Inlet	Excessive sediment or trash accumulation.	Accumulated sediments or trash impair free flow of water into Filterra.	Inlet should be free of obstructions allowing free distributed flow of water into Filterra.	Sediments and/or trash should be removed.
Mulch Cover	Trash and floatable debris accumulation.	Excessive trash and/or debris accumulation.	Minimal trash or other debris on mulch cover.	Trash and debris should be removed and mulch cover raked level. Ensure bark nugget mulch is not used.
Mulch Cover	"Ponding" of water on mulch cover.	"Ponding" in unit could be indicative of clogging due to excessive fine sediment accumulation or spill of petroleum oils.	Stormwater should drain freely and evenly through mulch cover.	Recommend contact manufacturer and replace mulch as a minimum.
Vegetation	Plants not growing or in poor condition.	Soil/mulch too wet, evidence of spill. Incorrect plant selection. Pest infestation. Vandalism to plants.	Plants should be healthy and pest free.	Contact manufacturer for advice.
Vegetation	Plant growth excessive.	Plants should be appropriate to the species and location of Filterra.		Trim/prune plants in accordance with typical landscaping and safety needs.
Structure	Structure has visible cracks.	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through the cracks.		Vault should be repaired.
Maintenance is ideally to be performed twice annually.				

Filterra Inspection & Maintenance Log

Filterra System Size/Model:_____ **Location:** _____

Date	Mulch & Debris Removed	Depth of Mulch Added	Mulch Brand	Height of Vegetation Above Grate	Vegetation Species	Issues with System	Comments
1/1/17	*5 – 5 gal Buckets*	*3″*	*Lowe's Premium Brown Mulch*	*4′*	*Galaxy Magnolia*	*- Standing water in downstream structure*	*- Removed blockage in downstream structure*

Appendix 1 – Filterra® Activation Checklist

CONTECH® ENGINEERED SOLUTIONS

Project Name: _____ Company: _____

Site Contact Name: _____ Site Contact Phone/Email: _____

Site Owner/End User Name: _____ Site Owner/End User Phone/Email: _____

Preferred Activation Date: _____ (provide 2 weeks minimum from date this form is submitted)

Site Designation	System Size	Final Pavement / Top Coat Complete	Landscaping Complete / Grass Emerging	Construction materials / Piles / Debris Removed	Throat Opening Measures 4" Min. Height	Plant Species Requested
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	

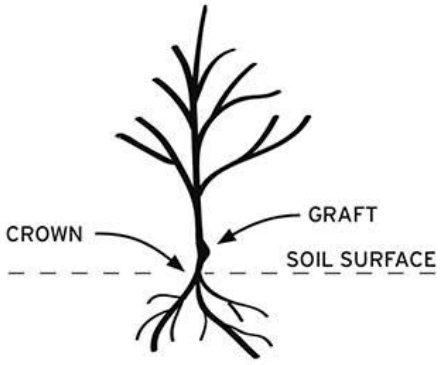
Attach additional sheets as necessary.

NOTE: A charge of $500.00 will be invoiced for each Activation visit requested by Customer where Contech determines that the site does not meet the conditions required for Activation. ONLY Contech authorized representatives can perform Activation of Filterra systems; unauthorized Activations will void the system warranty and waive manufacturer supplied Activation and 1st Year Maintenance.

Signature _____ Date _____

Appendix 2 – Planting Requirements for Filterra® Systems

Plant Material Selection



- Select plant(s) as specified in the engineering plans and specifications.
- Select plant(s) with full root development but not to the point where root bound.
- Use local nursery container plants only. Ball and burlapped plants are not permitted.
- For precast Filterra systems with a tree grate, plant(s) must not have scaffold limbs at least 14 inches from the crown due to spacing between the top of the mulch and the tree grate. Lower branches can be pruned away provided there are sufficient scaffold branches for tree or shrub development.
- For precast Filterra systems with a tree grate, at the time of installation, it is required that plant(s) must be at least 6" above the tree grate opening at installation for all Filterra configurations. This DOES NOT apply to Full Grate Cover designs.
- Plant(s) shall not have a mature height greater than 25 feet.
- For standard 21" media depth, a 7 – 15 gallon container size shall be used. Media less than 21" (Filterra boxes only) will require smaller container plants.
- For precast Filterra systems, plant(s) should have a single trunk at installation, and pruning may be necessary at activation and maintenance for some of the faster growing species, or species known to produce basal sprouts.

Plant Installation

- During transport protect the plant leaves from wind and excessive jostling.
- Prior to removing the plant(s) from the container, ensure the soil moisture is sufficient to maintain the integrity of the root ball. If needed, pre-wet the container plant.
- Cut away any roots which are growing out of the container drain holes. Plants with excessive root growth from the drain holes should be rejected.
- Plant(s) should be carefully removed from the pot by gently pounding on the sides of the container with the fist to loosen root ball. Then carefully slide out. Do not lift plant(s) by trunk as this can break roots and cause soil to fall off. Extract the root ball in a horizontal position and support it to prevent it from breaking apart. Alternatively the pot can be cut away to minimize root ball disturbance.
- Remove any excess soil from above the root flare after removing plant(s) from container.
- Excavate a hole with a diameter 4" greater than the root ball, gently place the plant(s).
- If plant(s) have any circling roots from being pot bound, gently tease them loose without breaking them.
- If root ball has a root mat on the bottom, it should be shaved off with a knife just above the mat line.
- Plant the tree/shrub/grass with the top of the root ball 1" above surrounding media to allow for settling.
- All plants should have the main stem centered in the tree grate (where applicable) upon completion of installation.
- With all trees/shrubs, remove dead, diseased, crossed/rubbing, sharply crotched branches or branches growing excessively long or in wrong direction compared to majority of branches.
- To prevent transplant shock (especially if planting takes place in the hot season), it may be necessary to prune some of the foliage to compensate for reduced root uptake capacity. This is accomplished by pruning away some of the smaller secondary branches or a main scaffold branch if there are too many. Too much foliage relative to the root ball can dehydrate and damage the plant.
- Plant staking may be required.

Mulch Installation

- Only mulch that has been meeting Contech Engineered Solutions' mulch specifications can be used in the Filterra system.
- Mulch must be applied to a depth of 3" evenly over the surface of the media.

Irrigation Requirements

- Each Filterra system must receive adequate irrigation to ensure survival of the living system during periods of drier weather.
- Irrigation sources include rainfall runoff from downspouts and/or gutter flow, applied water through the tree grate or in some cases from an irrigation system with emitters installed during construction.
- At Activation: Apply about one (cool climates) to two (warm climates) gallons of water per inch of trunk diameter over the root ball.
- During Establishment: In common with all plants, each Filterra plant will require more frequent watering during the establishment period. One inch of applied water per week for the first three months is recommended for cooler climates (2 to 3 inches for warmer climates). If the system is receiving rainfall runoff from the drainage area, then irrigation may not be needed. Inspection of the soil moisture content can be evaluated by gently brushing aside the mulch layer and feeling the soil. Be sure to replace the mulch when the assessment is complete. Irrigate as needed**.
- Established Plants: Established plants have fully developed root systems and can access the entire water column in the media. Therefore irrigation is less frequent but requires more applied water when performed. For a mature system assume 3.5 inches of available water within the media matrix. Irrigation demand can be estimated as 1" of irrigation demand per week. Therefore if dry periods exceed 3 weeks, irrigation may be required. It is also important to recognize that plants which are exposed to windy areas and reflected heat from paved surfaces may need more frequent irrigation. Long term care should develop a history which is more site specific.

** Five gallons per square yard approximates 1 inch of water Therefore for a 6' by 6' Filterra approximately 20-60 gallons of water is needed. To ensure even distribution of water it needs to be evenly sprinkled over the entire surface of the filter bed, with special attention to make sure the root ball is completely wetted. NOTE: if needed, measure the time it takes to fill a five gallon bucket to estimate the applied water flow rate then calculate the time needed to irrigate the Filterra. For example, if the flow rate of the sprinkler is 5 gallons/minute then it would take 12 minutes to irrigate a 6' by 6' filter.

Notes

filterra®
Bioretention Systems

CONTECH®
ENGINEERED SOLUTIONS

9025 Centre Pointe Drive, Suite 400
West Chester, OH 45069
info@conteches.com | 800-338-1122
www.ContechES.com

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PDF 6/20

ATTACHMENT 10

STORMWATER FACILITIES MAINTENANCE AGREEMENT WITH ACCESS RIGHTS AND COVENANTS (SWFMA)

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

CITY OF OCEANSIDE
OFFICE OF THE CITY CLERK
300 NORTH COAST HIGHWAY
OCEANSIDE, CA 92054

Above Space for Recorder's Use

STORMWATER FACILITIES MAINTENANCE AGREEMENT WITH ACCESS RIGHTS AND COVENANTS

PACFICA ELEMENTARY SCHOOL

This AGREEMENT for the maintenance and repair of certain Stormwater Management Facilities is entered into between Meritage Homes (hereinafter referred to as "OWNER") and the City of Oceanside (hereinafter referred to as "CITY") for the benefit of the CITY, the OWNER, the successors in interest to the CITY or the OWNER, and the public generally.

RECITALS

A. OWNER is the owner of certain real property located in the City of Oceanside, California, more particularly described in Exhibit "A" attached hereto and made a part of (hereinafter referred to as the "PROPERTY"), and has proposed that the PROPERTY be developed as 164 unit Condominium project in accordance with applications for Tentative Map No._____, Development Plan No. _____, Grading Plan (Permit) No _____, which are on file with the CITY. This Agreement is required as a condition of approval for such development as set forth in Resolution No _____.

B. In accordance with the City of Oceanside's Urban Runoff Regulations, Oceanside City Code, Chapter 40 (the "Stormwater Ordinance"), the City of Oceanside Subdivision Ordinance, the City of Oceanside Zoning Ordinance, The City of Oceanside Grading Ordinance and/or other ordinances or regulations of CITY which regulate land development and urban runoff, OWNER has prepared and submitted to CITY, a Stormwater Quality Mitigation Plan (hereinafter referred to as SWQMP), which is on file at the CITY. The SWQMP proposes that stormwater runoff from the PROPERTY be managed by the use of Stormwater Management Facilities which are identified in the SWQMP as "Best Management Practices" or "BMPs".

The precise location(s) and extent of the post construction BMPs are indicated in the approved SWQMP dated June 13th, 2022. The SWQMP specifies the manner and standards by which the BMPs must be repaired and maintained in order to retain their effectiveness, as set forth in the Operation Maintenance Plan (hereinafter referred to as "O&M PLAN"). The approved SWQMP and O&M PLAN containing any revisions thereto are on file with the CITY.

C. The information contained in the SWQMP and OWNER's representations that the BMPs will be maintained pursuant to the SWQMP have been relied upon by CITY in approving OWNER's development applications. It is the purpose of this Agreement to assure that the BMPs are maintained, by creating obligations which are enforceable against the OWNER and the OWNER's successors in interest in the PROPERTY. It is intended that these obligations be enforceable notwithstanding other provisions related to BMP maintenance which are provided by law.

AGREEMENT

NOW, THEREFORE, for consideration of (a) CITY's approval of the above development applications and (b) the mutual covenants set forth herein, IT IS HEREBY AGREED AS FOLLOWS:

1. **Maintenance of Stormwater Management Facilities.** OWNER agrees, for itself and its successors in interest, to all or any portion of the PROPERTY, to comply in all respects with the requirements of the Stormwater Ordinance and the SWQMP with regards to the maintenance of BMPs designated in the SWQMP, and in particular agrees to perform, at its sole cost, expense and liability, the following "MAINTENANCE ACTIVITIES": all inspections, cleaning, repairs, servicing, maintenance and other actions specified in the O&M PLAN, with respect to all of the BMPs listed at Recital "B" above, at the times and in the manner specified in the O&M PLAN. OWNER shall initiate, perform and complete all MAINTENANCE ACTIVITIES at the required time, without request or demand from CITY or any other agency. OWNER further agrees that "MAINTENANCE ACTIVITIES" shall include replacement or modification of the BMPs in the event that said BMPs do not function as intended. Replacement shall be with an identical type, size and model of BMP, except that:

(a) The CITY Engineer may authorize substitution of an alternative BMP if he or she determines that it will function as well or better than the original BMP; and

(b) Pursuant to Section 40.2.3(c) of the Stormwater Ordinance, if the failure of the BMP, in the judgment of the CITY Engineer indicates that the BMP in use is inappropriate or inadequate to the circumstances, the BMP must be modified or replaced with an upgraded BMP to prevent future failure.

2. **Notices.** OWNER further agrees that it shall, prior to transferring ownership of any land on which any of the above BMPs are located, and also prior to transferring ownership of any such BMP, provide clear written notice of the above maintenance obligations associated with that BMP to the transferee. OWNER further agrees to provide evidence to CITY that OWNER has requested the California Department of Real Estate to include in the public report issued for the development of the PROPERTY, a notification regarding the BMP maintenance requirements described herein.

3. **CITY's Right to Perform Maintenance.** It is agreed that CITY shall have the right, but not the obligation, to elect to perform any or all of the MAINTENANCE ACTIVITIES if, in the CITY's sole judgment, OWNER has failed to perform the same. It is recognized and understood that the CITY makes no representation that it intends to or will perform any of the MAINTENANCE ACTIVITIES and any election by CITY to perform any of the MAINTENANCE ACTIVITIES, shall in no way relieve OWNER of its continuing maintenance obligations under this agreement. If CITY elects to perform any of the MAINTENANCE ACTIVITIES, it is understood that CITY shall be deemed to be acting as the agent of the OWNER and said work shall be without warranty or representation by CITY as to safety or effectiveness, shall be deemed to be accepted by OWNER "as is", and shall be covered by OWNER's indemnity provisions below.

If CITY performs any of the MAINTENANCE ACTIVITIES, after CITY has demanded that OWNER perform the same and OWNER has failed to do so within a reasonable time stated in the CITY's demand, then OWNER shall pay all of CITY's costs incurred in performing the MAINTENANCE ACTIVITIES. OWNER's obligation to pay CITY's costs of performing MAINTENANCE ACTIVITIES is a continuing obligation and shall apply whether or not CITY has utilized all or any portion of the security provided pursuant to Paragraph 5.

4. **CITY'S Access Rights.** OWNER hereby authorizes the CITY to access perpetually over, under and across all of the property, for purposes of accessing the BMPs and performing any of the MAINTENANCE ACTIVITIES specified in Paragraph 1 above. CITY shall have the right, at any time and without prior notice to OWNER, to enter upon any part of said area as may be necessary or convenient for such purposes. OWNER shall at all times maintain the PROPERTY so as to make CITY's access clear and unobstructed.

5. **Security.** OWNER has provided CITY with non-refundable security to assure the faithful performance of the obligations of this agreement. The security is in the form of a Cash Deposit in the amount of $ 25,000.00 . CITY may utilize the security to provide funding for the cost of CITY performing any of the MAINTENANCE ACTIVITIES under Paragraph 3 above. CITY may utilize all or any part of the security at any time pursuant to this Agreement. Should any portion of the security be used by CITY, OWNER or a Subsequent Owner, as applicable, shall deposit additional funds in the amount utilized by CITY, thereby restoring the security to the amount initially deposited by OWNER.

6. **Administration of Agreement for CITY.** CITY hereby designates its Engineer as the officer charged with responsibility and authority to administer this Agreement on behalf of CITY. Any notice or communication related to the implementation of this Agreement desired or required to be delivered to CITY shall be addressed to:

City Engineer
City of Oceanside
300 North Coast Highway
Oceanside, CA 92054

The City Engineer is also granted authority to enter into appropriate amendments to this Agreement on behalf of CITY, provided that the amendment is consistent with the purposes of this Agreement as set forth above.

7. **Defense and Indemnity.** CITY shall not be liable for, and OWNER and its successors in interest shall defend and indemnify CITY and the employees and agents of CITY (collectively "CITY PARTIES"), against any and all claims, demands, liability, judgments, awards, fines, mechanic's liens or other liens, labor disputes, losses, damages, expenses, charges or costs of any kind or character, including attorneys' fees and court costs (hereinafter collectively referred to as "CLAIMS"), related to this Agreement and arising either directly or indirectly from any act, error, omission or negligence of OWNER, OWNER's successors, or their contractors, licensees, agents, servants or employees, including, without limitation, claims caused by the concurrent negligent act, error or omission, whether active or passive, of CITY PARTIES. OWNER shall have no obligation, however, to defend or indemnify CITY PARTIES from a claim if it is determined by a court of competent jurisdiction that such claim was caused by the sole negligence or willful misconduct of CITY PARTIES. Nothing in this Agreement, CITY's approval of the subdivision or other applications or plans and specifications, or inspection of the work, is intended to acknowledge responsibility for any such matter, and CITY PARTIES shall have absolutely no responsibility or liability therefor unless otherwise provided by applicable law.

8. **Common Interest Developments.** If the PROPERTY is developed as a "Common Interest Development" as defined in Civil Code section 1351(c) which will include membership in or ownership of an "ASSOCIATION" as defined in Civil Code section 1351(a), then the following provisions of this Paragraph 8 shall apply during such time as the PROPERTY is encumbered by a "DECLARATION" as defined in Civil Code section 1351(h), and the Common Area, as "Common Area" is defined in Civil Code section 1351(b), of the PROPERTY is managed and controlled by the ASSOCIATION:

(a) The ASSOCIATION, through its Board of Directors, shall assume full responsibility to perform the MAINTENANCE ACTIVITIES pursuant to this Agreement, and shall undertake all actions and efforts necessary to accomplish the MAINTENANCE ACTIVITIES, including but not limited to, levying regular or special assessments against each member of the ASSOCIATION sufficient to

provide funding for the MAINTENANCE ACTIVITIES, conducting a vote of the membership related to such assessments if required by law. In the event insufficient votes have been obtained to authorize an assessment, the ASSOCIATION shall seek authority from a court of competent jurisdiction for a reduced percentage of affirmative votes necessary to authorize the assessment, re-conducting the vote of the membership in order to obtain the votes necessary to authorize an assessment, and the ASSOCIATION shall take all action authorized by the DECLARATION or California law to collect delinquent assessments, including but not limited to, the recording and foreclosure of assessment liens.

(b) No provision of the DECLARATION, nor any other governing document of the ASSOCIATION or grant of authority to its members, shall grant or recognize a right of any member or other person to alter, improve, maintain or repair any of the PROPERTY in any manner which would impair the functioning of the BMPs to manage drainage or stormwater runoff as described in the SWQMP. In the event of any conflict between the terms of this Agreement and the DECLARATION or other ASSOCIATION governing documents, the provisions of this Agreement shall prevail.

9. **Agreement Binds Successors and Runs with the PROPERTY.** It is understood and agreed that the terms, covenants and conditions herein contained shall constitute covenants running with the land and shall be binding upon the heirs, executors, administrators, successors and assigns of OWNER and CITY, shall be deemed to be for the benefit of all persons owning any interest in the PROPERTY (including the interest of CITY or its successors in the Access Rights authorized herein). It is the intent of the parties hereto that this Agreement may be recorded and shall be binding upon all persons purchasing or otherwise acquiring all or any lot, unit or other portion of the PROPERTY, who shall be deemed to have consented to and become bound by all the provisions hereof.

10. **OWNER's Continuing Responsibilities Where Work Commenced or Permit Obtained.** Notwithstanding any other provision of this Agreement, no transfer or conveyance of the PROPERTY or any portion thereof shall in any way relieve OWNER of or otherwise affect OWNER's responsibilities for installation or maintenance of BMPs which may have arisen under the ordinances or regulations of CITY referred to in Recital B above, or other federal, state or CITY laws, on account of OWNER having obtained a permit which creates such obligations or having commenced grading, construction or other land disturbance work.

11. **Amendment and Release.** The terms of this Agreement may be modified only by a written amendment approved and signed by the City Council or the CITY Engineer acting on behalf of CITY and by OWNER or OWNER's successor(s) in interest. This Agreement may be terminated and OWNER and the PROPERTY released from the covenants set forth herein, by a Release which CITY may execute if it determines that another mechanism will assure the ongoing maintenance of the BMPs or that it is no longer necessary to assure such maintenance.

12. **Governing Law and Severability.** This Agreement shall be governed by the laws of the State of California. Venue in any action related to this Agreement shall be in the Superior Court of the State of California, County of San Diego, North County Division. In the event that any of the provisions of this Agreement are held to be unenforceable or invalid by any court of competent jurisdiction, the validity, and enforceability of the remaining provisions shall not be affected thereby.

IN WITNESS WHEREOF, the parties hereto for themselves, their heirs, executors, administrators, successors and assigns do hereby agree to the full performance of the covenants herein contained and have caused this Agreement to be executed by setting hereunto their signatures on the dates indicated below:

OWNER(s):

By: _____
Name/Title

Date: _____

By: _____
Name/Title

Date: _____

CITY OF OCEANSIDE:

By: _____
City Engineer

Date: _____

APPROVED AS TO FORM:

_____
City Attorney

NOTARY ACKNOWLEDGEMENT OF OWNER'S SIGNATURE(S) MUST BE ATTACHED

ATTACHMENT 11

ANNUAL INSPECTION AND MAINTENANCE REPORTING FORM

URBAN STORMWATER MITIGATION PLAN REPORTING FORM
ANNUAL INSPECTION AND MAINTENANCE OF TREATMENT CONTROL BMPS
(SIDE A)

Responsible Party for Inspection Maintenance: _____ Signature:_____
Date:_____ Print Name/Title

Facility Name:_____

BMP Type	Location Lat/Lon or Inlet #	Date of Construction	Inspection Date(s)	Condition of BMP Indicate whether the BMP is present and in working condition, requires cleaning or replacement.	*Maintenance required? (Y/N) If yes, complete reverse side.

* Maintenance is to be carried out as needed and in accordance with approved Operation and Maintenance Plan.

URBAN STORMWATER MITIGATION PLAN REPORTING FORM
ANNUAL INSPECTION AND MAINTENANCE OF TREATMENT CONTROL BMPS
(SIDE B)

BMP Type	BMP Location (lat/lon or Inlet #)	Date of Maintenance Activity	Description of maintenance performed	If applicable, describe any additional work required.

* Maintenance is to be carried out as needed and in accordance with the City of Oceanside's Operation and Maintenance Plan.

ATTACHMENT 4
Copy of Plan Sheets Showing Permanent Storm Water BMPs

This is the cover sheet for Attachment 4.

Use this checklist to ensure the required information has been included on the plans:

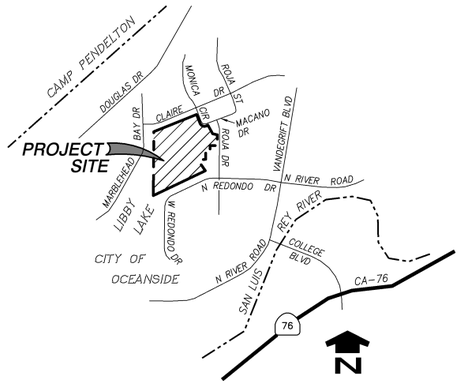
The plans must identify:

☒Structural BMP(s) with ID numbers matching Form I-6 Summary of PDP Structural BMPs
☒The grading and drainage design shown on the plans must be consistent with the delineation of DMAs shown on the DMA exhibit
☒Details and specifications for construction of structural BMP(s)
☒Signage indicating the location and boundary of structural BMP(s) as required by the City Engineer
☒How to access the structural BMP(s) to inspect and perform maintenance
☒Features that are provided to facilitate inspection (e.g., observation ports, cleanouts, silt posts, or other features that allow the inspector to view necessary components of the structural BMP and compare to maintenance thresholds)
☒Manufacturer and part number for proprietary parts of structural BMP(s) when applicable
☒Maintenance thresholds specific to the structural BMP(s), with a location-specific frame of reference (e.g., level of accumulated materials that triggers removal of the materials, to be identified based on viewing marks on silt posts or measured with a survey rod with respect to a fixed benchmark within the BMP)
☒Recommended equipment to perform maintenance
☒When applicable, necessary special training or certification requirements for inspection and maintenance personnel such as confined space entry or hazardous waste management
☒Include landscaping plan sheets showing vegetation requirements for vegetated structural BMP(s)
☒All BMPs must be fully dimensioned on the plans
☒When propritery BMPs are used, site specific cross section with outflow, inflow and model number shall be provided. Broucher photocopies are not allowed.

TENTATIVE MAP/ DEVELOPMENT PLAN

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA



VICINITY MAP

NOT TO SCALE

LEGEND

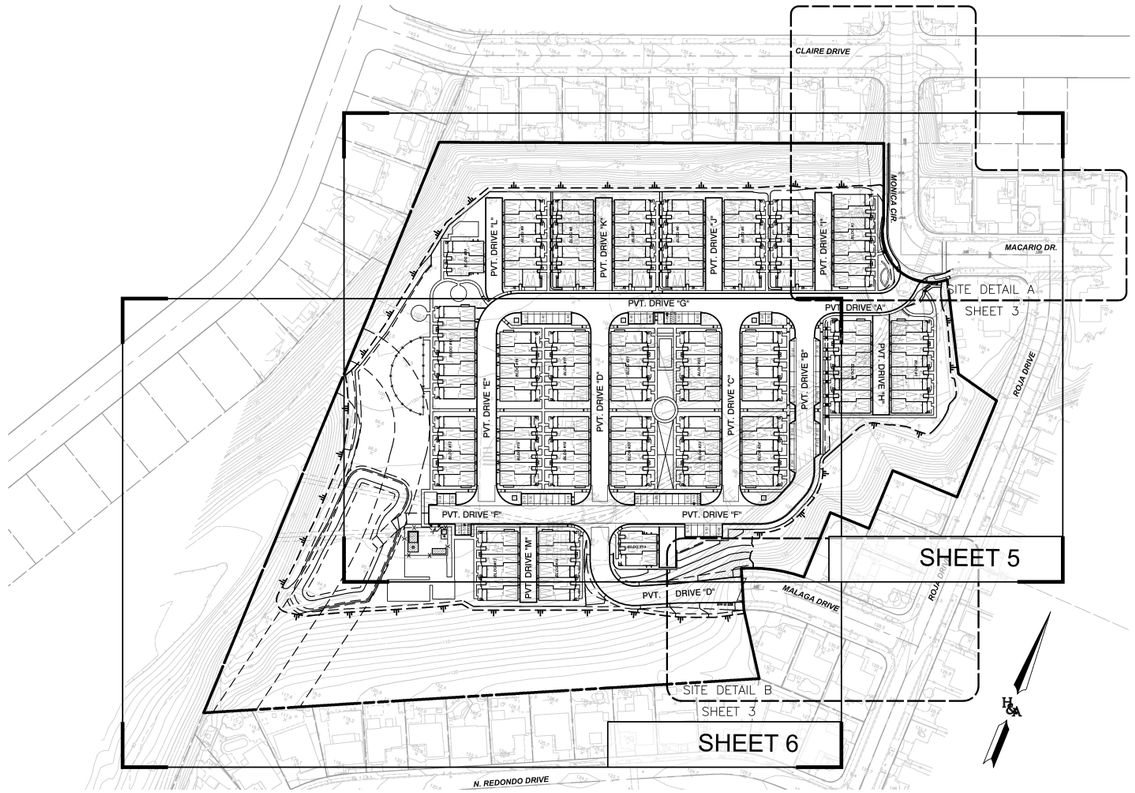
PROJECT BOUNDARY	
EXISTING TOPO CONTOUR	350
BUILDING NUMBER	BLDG #2
UNIT NUMBER	7
FINISH FLOOR ELEVATION	FF=100.75
PAD ELEVATION	P=100.00
SLOPE (2: 1 MAX)	2:1
DAYLIGHT LINE	
PERCENT OF GRADE	2%
ST. ELEVATION	350.4
6" PVC PRIVATE SEWER STUB W/ CLEAN OUT *UNLESS SHOWN OTHERWISE ON PLAN	S
8" PVC PRIVATE SEWER MAIN W/ MANHOLE *UNLESS SHOWN OTHERWISE ON PLAN	S
8" PVC PUBLIC SEWER MAIN W/ MANHOLE	S
4" PVC PUBLIC SEWER FORCE MAIN W/ MANHOLE	FM
SEWER INVERT ELEVATION	343.4 IE
4" PVC WATER MAIN *UNLESS SHOWN OTHERWISE ON PLAN	W
8" PVC PRIVATE WATER FIRE	F
WATER METER	
BACKFLOW PREVENTER	
FIRE HYDRANT	
18" PRIVATE HDPE STORM DRAIN* *UNLESS SHOWN OTHERWISE ON PLAN	
18" PRIVATE BYPASS HDPE STORM DRAIN* *UNLESS SHOWN OTHERWISE ON PLAN	
24" PUBLIC BYPASS HDPE STORM DRAIN* *UNLESS SHOWN OTHERWISE ON PLAN	
RETAINING WALL* *PER CoOCEANSIDE STANDARD DRAWINGS	
TOP OF WALL ELEVATION/ FINISH GRADE	TW/FG
ST. LIGHT	
EASEMENT LINE	
TRANSFORMER	T
DRAINAGE SWALE PATH	
BROW DITCH	
ACCESSIBLE UNIT	

PARKING SUMMARY

USE	PARKING STANDARD	# OF UNITS	REQUIRED	PROVIDED
ATTACHED RESIDENTIAL	2 spaces / two or more bedroom units	164	328	328
GUEST PARKING	Minimum amount equal to 1 Space plus 20% of the total dwelling units	164	34	61
	SUBTOTAL	**164**	**362**	**389**

DISABLED ACCESS REQUIREMENTS:

Total Parking Spaces Provided	Min. Accessible Parking Spaces Required	# Accessible Parking Spaces Provided	Min. Van Accessible Parking Spaces Required	# Van Accessible Parking Spaces Provided
61	3	3	1	1



KEY MAP

NOT TO SCALE

SHEET INDEX

SHEET 1 - TITLE SHEET
SHEET 2 - SECTIONS / DETAILS
SHEET 3 - SITE DETAILS
SHEET 4 - EXISTING CONDITIONS
SHEET 5 - TM / DEVELOPMENT PLAN
SHEET 6 - TM / DEVELOPMENT PLAN
SHEET 7 - OPEN SPACE & BUILDING TYPES
SHEET 8 - BOUNDARIES & ENCUMBRANCES
SHEET 9 - ACCESSIBLE PATHS
SHEET 10 - SITE SETBACKS

OPEN SPACE

SEE SHEET 7

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM NAD 83, ZONE 6, EPOCH 2011.00 AND IS BASED ON THE GRID BEARING BETWEEN STATION NO. 1055 AND STATION NO. 1065, PER RECORD OF SURVEY 21787. I.E. N23°01'30"E

TOPOGRAPHY SOURCE

VERTICAL RELIEF SHOWN HEREON WAS PRODUCED BY FIELD METHODS COMBINED WITH AERIAL PHOTOGRAPHY BY R.J. LUNG AND ASSOCIATES FLOWN ON OCTOBER 13, 2021. VERTICAL DATUM BASED ON COH88, STATION 1055 PER CITY OF OCEANSIDE SURVEY CONTROL NETWORK AS ESTABLISHED BY R.O.S. NO. 21787. 2.5" BRASS DISK IN CURB INLET WITH TRIANGLE/PUNCH STAMPED "LS 7854". ELEV. 119.39'

REGISTERED PROFESSIONAL ENGINEER — ALISA S. VIALPANDO — C 47945 — CIVIL — STATE OF CALIFORNIA

CIVIL ENGINEER

HUNSAKER & ASSOCIATES, SAN DIEGO, INC
9707 WAPLES STREET
SAN DIEGO, CA 92121
(858) 558-4500

ALISA S. VIALPANDO R.C.E. 47945 DATE

LEGAL DESCRIPTION

SEE SHEET 8

EASEMENTS

SEE SHEET 8

CONDOMINIUM NOTE

THIS IS A MAP OF A CONDOMINIUM PROJECT AS DEFINED IN SECTION 4125 OF THE CIVIL CODE OF THE STATE OF CALIFORNIA AND IS FILED PURSUANT TO THE SUBDIVISION MAP ACT. THE MAXIMUM NUMBER OF RESIDENTIAL UNITS 164.

PRELIMINARY SET

GENERAL NOTES

1. EXISTING GROSS SUBDIVISION AREA: 14.546 AC
2. PROPOSED SUBDIVISION AREA: 14.546 AC
3. NET PROJECT AREA: 10.231 AC
4. TOTAL NUMBER OF EXISTING LOTS: 2
5. TOTAL NUMBER OF PROPOSED LOTS: 1
6. TOTAL NUMBER OF UNITS: 164 (ATTACHED UNITS)
7. ASSESSOR PARCEL NUMBER: 157-070-42, 122-190-19 & 122-190-22
8. EXISTING GENERAL PLAN: CIVIC INSTITUTIONAL
9. PROPOSED GENERAL PLAN: MDB-R MEDIUM DENSITY-B RESIDENTIAL
10. EXISTING ZONING: PUBLIC/SEMIPUBLIC
11. PROPOSED ZONING: PD PLANNED DEVELOPMENT
12. PROPOSED DENSITY: 12.8 DU/AC (164 DU's/12.82 AC)
13. TOPOGRAPHIC CONTOUR INTERVAL: 2 FOOT
14. MAXIMUM SLOPE GRADIENT: 2: 1
15. AREA/PERCENT OF TOTAL BUILDING COVERAGE: 3.23 AC. (22.2%)
16. AREA/PERCENT OF PROJECT IN STREETS, DRIVEWAYS & DRIVE AISLES: 2.51 AC (17.3%)
17. AREA/PERCENT OF SIDEWALKS: 1.08 AC. (7.4%)
18. AREA/PERCENT OF LANDSCAPING: 7.73 AC (53.1%)
19. GRADING QUANTITIES: RAW CUT: 28,645 C.Y. RAW FILL: 28,645 C.Y.
20. GRADED AREA: 10.231 AC

DESIGN NOTES

1. ALL STREET DESIGN SHALL CONFORM TO THE CITY OF OCEANSIDE DESIGN STANDARDS AS REQUIRED BY THE CITY ENGINEER.
2. EASEMENTS SHALL BE PROVIDED, REMOVED OR RELOCATED AS REQUIRED BY THE CITY ENGINEER.
3. ALL PROPOSED UTILITIES SHALL BE UNDERGROUNDED AND EASEMENTS PROVIDED.
4. GEOTECHNICAL INVESTIGATION PREPARED BY: GEOTEK, DATED DECEMBER 11, 2021.
5. THE DEVELOPER SHALL INSTALL STREET LIGHTS PER THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT TRAFFIC DIVISION, THE STREET LIGHT DESIGN MANUAL AND THE CITY OF OCEANSIDE STANDARD DRAWING NO. M-4. STREET LIGHT LOCATIONS MAY VARY IN FINAL DESIGN.
6. ALL RETAINING WALLS IN EXCESS OF 4 FEET SHALL BE PLANTABLE.
7. THE PROPOSED SEWER SHALL BE INSTALLED PER CITY OF OCEANSIDE STANDARDS. ALL ON-SITE SEWER IS PRIVATE.
8. THE PROPOSED WATER SHALL BE INSTALLED PER CITY OF OCEANSIDE STANDARDS. ALL ON-SITE WATER IS PRIVATE.
9. FINISH GRADES ARE APPROXIMATE AND SUBJECT TO CHANGE IN FINAL DESIGN.
10. MODEL UNITS MAY BE BUILT PRIOR TO FINAL MAP WITH APPROVAL FROM THE CITY ENGINEER AND PLANNING DIRECTOR.
11. ALL FUTURE DRIVEWAYS AND GEOMETRIC DESIGN SHALL BE DESIGNED IN COMPLIANCE WITH THE CITY OF OCEANSIDE ENGINEERS DESIGN STANDARDS.
12. THE PRESENT OR FUTURE OWNER/DEVELOPER SHALL INDEMNIFY AND SAVE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITIES, CLAIMS ARISING FROM ANY FLOODING THAT OCCURS ON THIS SITE AND FLOODING THAT MAYBE DISCHARGED FROM THIS SITE INTO ADJACENT PROPERTIES.
13. ALL SIDEWALK AND PATHWAYS SHALL BE ADA COMPLIANT.

APPLICANT

MLC HOLDINGS, INC./ MERITAGE HOMES
JOHANNA CROOKER
5 PETERS CANYON ROAD
SUITE 310
IRVINE, CA 92606

JOHANNA CROOKER DATE
APPLICANT

OWNER

OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 MISSION AVE
OCEANSIDE, CA 92058
(760) 966-4000

OWNER DATE

PREPARED BY:

HUNSAKER & ASSOCIATES SAN DIEGO, INC

PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500· FX(858)558-1414

NO.	REVISIONS	DATE	BY
1	1st SUBMITTAL	06/17/2022	H&A
2	2nd SUBMITTAL	11/23/2022	H&A
3	3rd SUBMITTAL	03/29/2023	H&A
4			
5			
6			
7			
8			
9			
10			

TENTATIVE MAP / DEVELOPMENT PLAN

PACIFICA ELEMENTARY SCHOOL

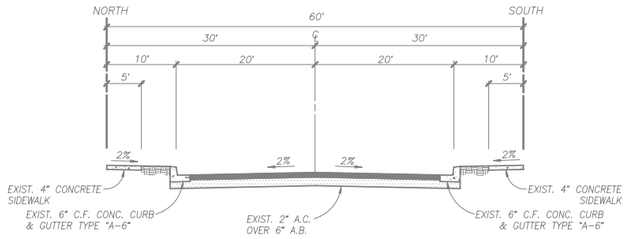
CITY OF OCEANSIDE, CALIFORNIA

SHEET 1 OF 10

PACIFICA ELEMENTARY SCHOOL, OCEANSIDE

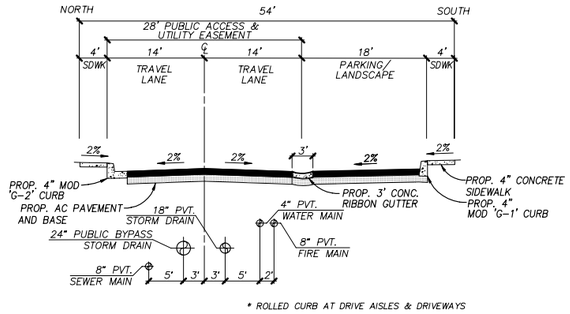
WO # 3087-0010

R:\1714\&Pln\Tentative Map\Pacifica Elementary TM Sht 01.dwg[]Mar-29-2023:11:09



EXISTING MACARIO DRIVE

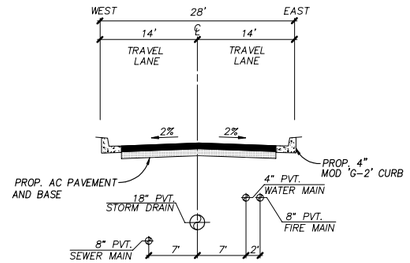
NOT TO SCALE



* ROLLED CURB AT DRIVE AISLES & DRIVEWAYS

PROPOSED PORTION OF PVT. DRIVE 'A'
(FROM PVT. DRIVE 'B' TO PVT. DRIVE 'E')

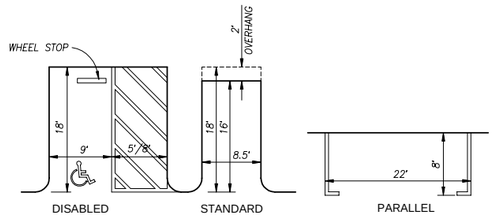
NOT TO SCALE



* ROLLED CURB AT DRIVEWAYS

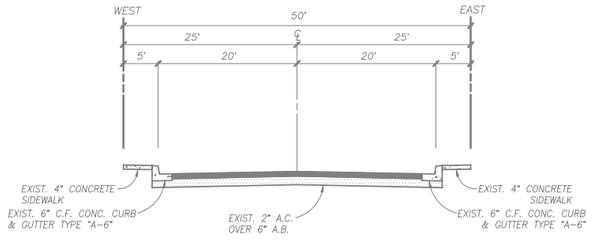
PROPOSED PVT. DRIVE 'E'

NOT TO SCALE



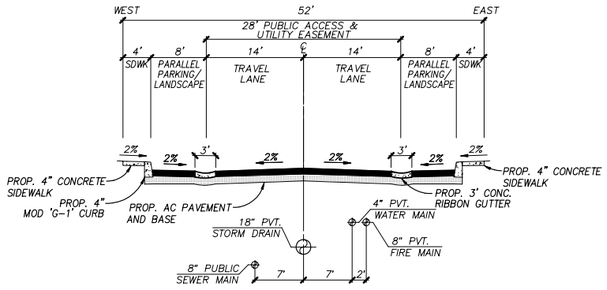
TYPICAL PARKING DETAIL

NOT TO SCALE



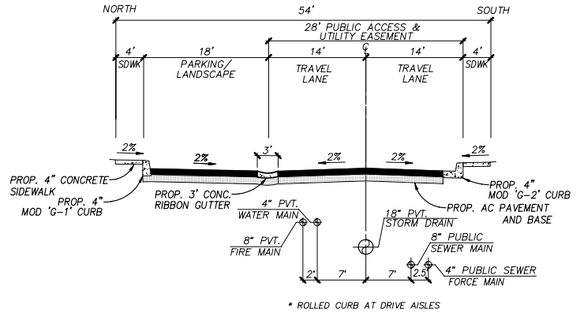
EXISTING MONICA CIRCLE

NOT TO SCALE



PROPOSED PVT. DRIVE 'B'

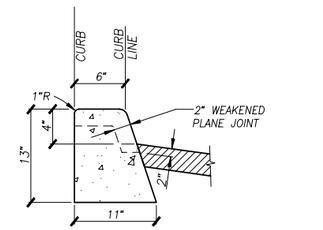
NOT TO SCALE



* ROLLED CURB AT DRIVE AISLES

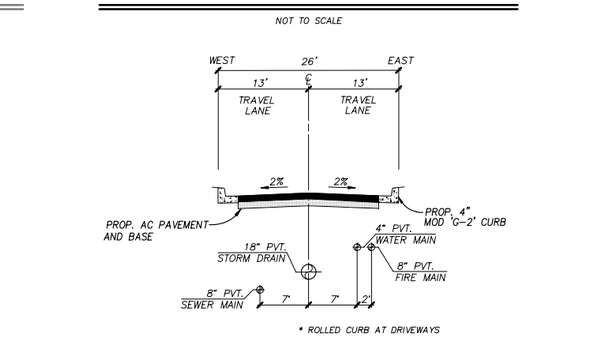
PROPOSED PVT. DRIVE 'F'

NOT TO SCALE



4" MOD. 'G-1' CURB

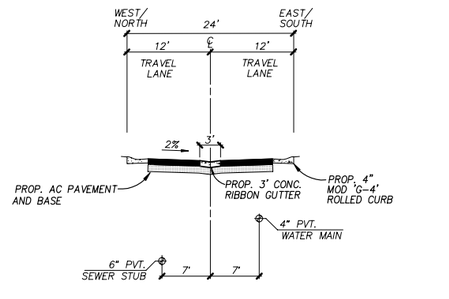
NOT TO SCALE



* ROLLED CURB AT DRIVEWAYS

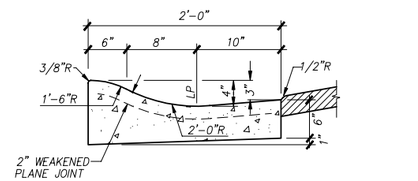
PROPOSED PVT. DRIVES 'C' & 'D'

NOT TO SCALE



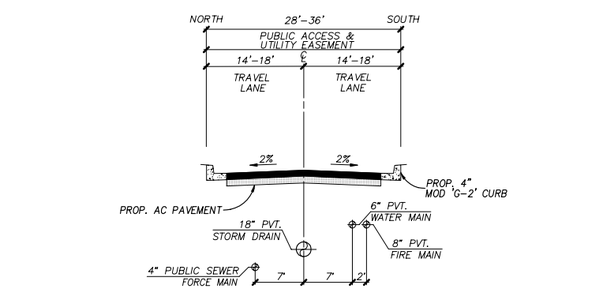
PROPOSED PVT. DRIVES 'H', 'I', 'J', 'K', 'L' & 'M'

NOT TO SCALE



4" MOD. 'G-4' ROLLED CURB

NOT TO SCALE



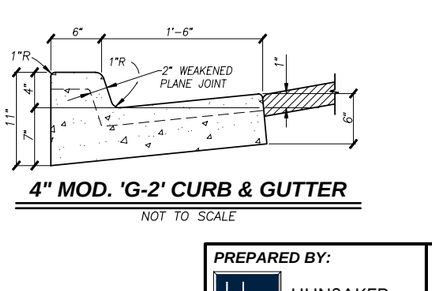
* ROLLED CURB AT DRIVE AISLE

PROPOSED PORTION OF PVT. DRIVE 'A'
(FROM PROJECT ENTRY TO PVT. DRIVE 'B')

NOT TO SCALE

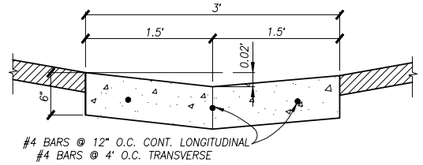
PROPOSED PVT. DRIVE 'D'
CONNECTION TO EX. MALAGA DR.

NOT TO SCALE



4" MOD. 'G-2' CURB & GUTTER

NOT TO SCALE



3' CONCRETE RIBBON GUTTER

NOT TO SCALE

PRELIMINARY SET

PREPARED BY:
HUNSAKER & ASSOCIATES
SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 FX(858)558-1414

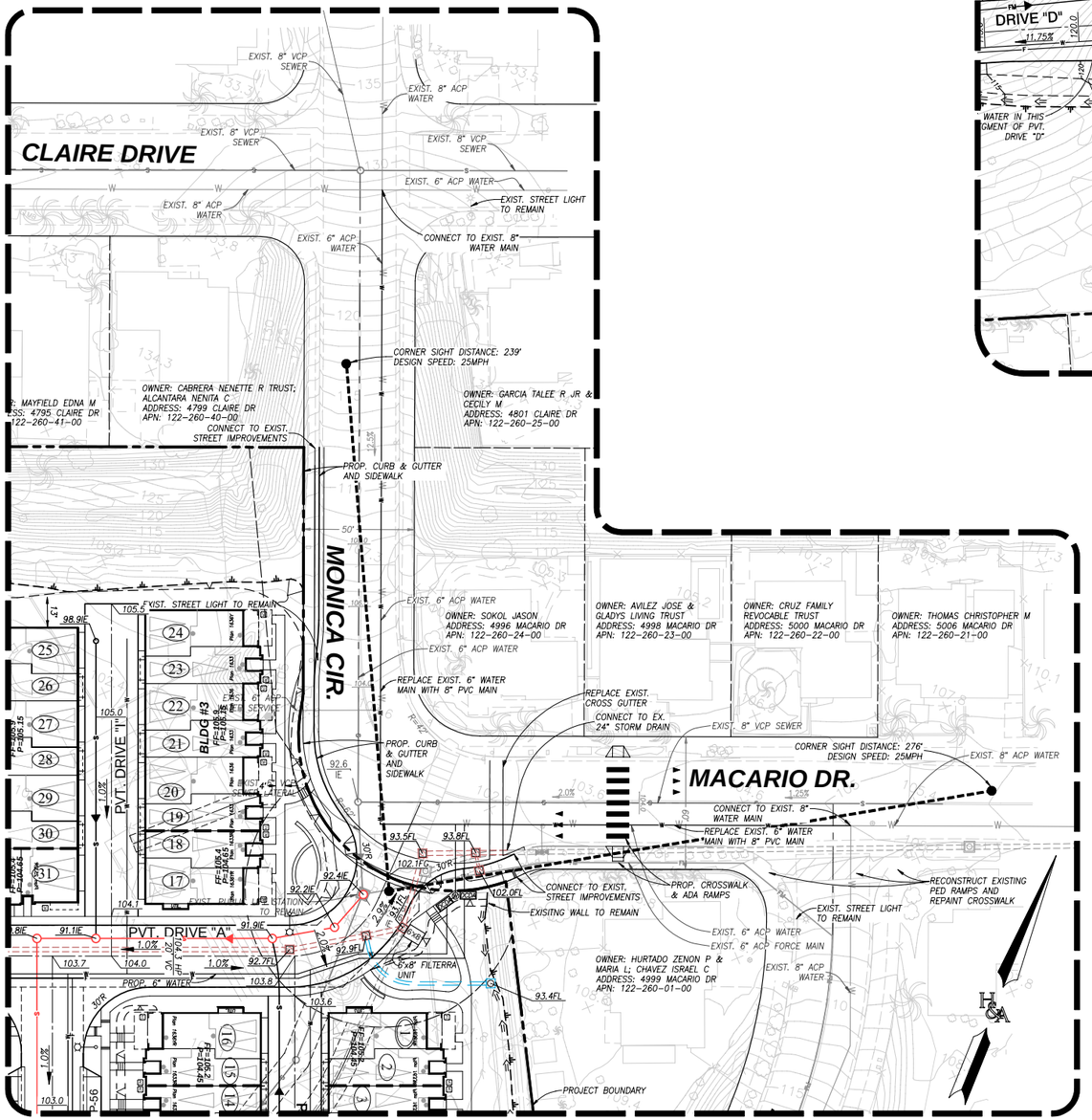
SECTIONS / DETAILS

PACIFICA ELEMENTARY SCHOOL

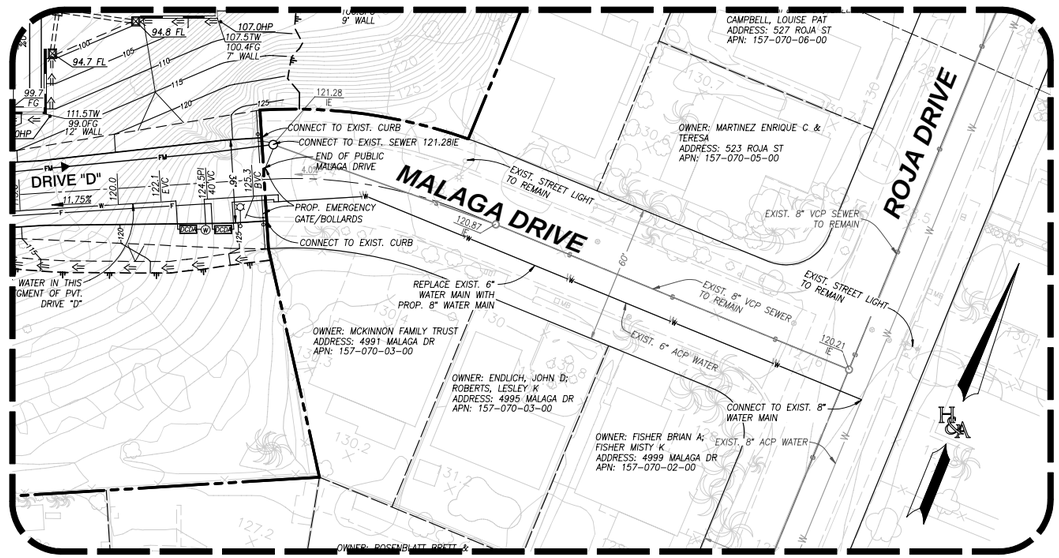
CITY OF OCEANSIDE, CALIFORNIA

SHEET 2 OF 10

0100-1282 # WO



SITE DETAIL A
SCALE 1"=30'



SITE DETAIL B
SCALE 1"=30'

PRELIMINARY SET

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 FX(858)558-1414

SITE DETAILS

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 3 OF 10

0100-2823 # MD

FOR CONTINUATION - SEE LEFT

FOR CONTINUATION - SEE RIGHT

CLAIRE DRIVE

EXIST. 8" VCP SEWER
EXIST. 8" ACP WATER
EXIST. 8" VCP SEWER
EXIST. 8" VCP SEWER
EXIST. 8" ACP WATER
EXIST. 6" ACP WATER
EXIST. STREET LIGHT TO REMAIN
EXIST. 6" ACP WATER
EXIST. SCHOOL ZONE SIGN TO BE REMOVED

MONICA CIR.

EXIST. SCHOOL ZONE SIGN TO BE REMOVED
EXIST. STREET LIGHT TO REMAIN
EXIST. SCHOOL ZONE SIGN TO BE REMOVED
EXIST. 6" ACP WATER SERVICE
EXIST. 6" ACP WATER
EXIST. 6" ACP WATER
EXIST. CROSSWALK TO BE REMOVED
(2) EXIST. SCHOOL ZONE SIGNS ON MACARIO DR/ROJA ST TO BE REMOVED
EXIST. SCHOOL ZONE SIGN TO BE REMOVED
EXIST. 8" VCP SEWER

MACARIO DR.

EXIST. SDG&E EASEMENT TO BE QUITCLAIMED
EXIST. 6" VCP SEWER LATERAL
EXIST. SCHOOL ZONE SIGN TO BE REMOVED
EXIST. FENCING TO BE REMOVED
EXIST. PUBLIC LIFT STATION TO REMAIN
EXIST. 24" STORM DRAIN
CONNECT TO EX. 24" STORM DRAIN
EXIST. STREET LIGHT TO REMAIN
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. INLET TO BE REMOVED
EXIST. 6" ACP WATER
EXIST. 6" ACP FORCE MAIN
EXIST. 8" ACP WATER
EXIST. MANHOLE TO BE REMOVED
EXIST. MANHOLE TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. 24" STORM DRAIN TO BE REMOVED
EXIST. SEWER EASEMENT TO BE VACATED/QUITCLAIMED
EXIST. STORM DRAIN EASEMENT TO BE VACATED/QUITCLAIMED

ROJA DRIVE

EXIST. STREET LIGHT TO REMAIN
EXIST. 8" VCP SEWER

EXIST. BUILDING SLAB TO BE REMOVED
EXIST. BUILDING TO BE REMOVED
EXIST. BUILDING SLAB TO BE REMOVED
EXIST. ASPHALT TO BE REMOVED
EXIST. BUILDING SLAB TO BE REMOVED
EXIST. ASPHALT TO BE REMOVED
EXIST. ASPHALT TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. CLEAN OUT TO BE REMOVED
EXIST. MANHOLES TO BE REMOVED
EXIST. 30" STORM DRAIN TO BE REMOVED
EXIST. MANHOLE TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED
EXIST. 24" STORM DRAIN TO BE REMOVED
EXIST. MANHOLE TO BE REMOVED
EXIST. 8" VCP SEWER TO BE REMOVED

FEMA 500 YEAR FLOOD ZONE X
FIRM PANEL #468
EFFECTIVE DATE: 5/16/2012

EXISTING STORM DRAIN OUTLET PER DWG. #S-533
EXISTING CLEANOUT TO REMAIN
EXIST. 30" STORM DRAIN TO REMAIN
EXIST. STORM GRATE TO REMAIN

MALAGA DRIVE

EXIST. STREET LIGHT TO REMAIN
EXIST. 8" VCP SEWER TO REMAIN
EXIST. 6" VCP SEWER TO REMAIN
EXIST. 8" ACP WATER
EXIST. 8" ACP WATER

0 40 80 120
SCALE 1" =40'

PRELIMINARY SET

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 FX(858)558-1414

EXISTING CONDITIONS

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 4 OF 10

WO # 3087-0010

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SEE DETAIL A - SHEET 3

SEE SITE DETAIL A - SHEET 3

FOR CONTINUATION SEE SHEET 6

PRELIMINARY SET

MONICA CIR.

MACARIO DR.

ROJA DRIVE

PVT. DRIVE "A"

PVT. DRIVE "B"

PVT. DRIVE "C"

PVT. DRIVE "D"

PVT. DRIVE "E"

PVT. DRIVE "F"

PVT. DRIVE "H"

PVT. DRIVE "I"

PVT. DRIVE "J"

PVT. DRIVE "K"

PVT. DRIVE "L"

PVT. DRIVE "M"

PROJECT BOUNDARY

HABITAT SETBACK LIMITS

OWNER: DOWDEN, FRANK; DOWDEN, KATHERINE
ADDRESS: 4791 MARBLEHEAD BAY DR
APN: 122-386-03-00

OWNER: MONGES, JUDY; R G CABRERA TRUST
ADDRESS: 4771 CLAIRE DR
APN: 122-260-48-00

OWNER: MONTESINOS JOSE & ALBINA
ADDRESS: 4775 CLAIRE DR
APN: 122-260-47-00

OWNER: KOKOSZKA MATTHEW C & JOAN
ADDRESS: 4777 CLAIRE DR
APN: 122-260-46-00

OWNER: AIKEN THOMAS L SR LIVING TRUST
ADDRESS: 4781 CLAIRE DR
APN: 122-260-45-00

OWNER: HONARVAR JOHN B & RAHMANKHAH SIMIN
ADDRESS: 4785 CLAIRE DR
APN: 122-260-44-00

OWNER: RIVERA RENE S & MARIA
ADDRESS: 4787 CLAIRE DR
APN: 122-260-43-00

OWNER: ENDSLEY SCOTT K
ADDRESS: 4791 CLAIRE DR
APN: 122-260-42-00

OWNER: MAYFIELD EDNA M
ADDRESS: 4795 CLAIRE DR
APN: 122-260-41-00

OWNER: CABRERA NENETTE R TRUST; ALCANTARA NENITA C
ADDRESS: 4799 CLAIRE DR
APN: 122-260-40-00

OWNER: GARCIA TALEE R JR & CECILY M
ADDRESS: 4801 CLAIRE DR
APN: 122-260-25-00

OWNER: BAKER CONNIE M REVOCABLE LIVING TRUST
ADDRESS: 4815 CLAIRE DR
APN: 122-260-26-00

OWNER: RODRIGUEZ ENRIQUE
ADDRESS: 4825 CLAIRE DR
APN: 122-260-27-00

OWNER: ORPILLA ALFREDO S JR & MELITA D REVOCABLE TRUST
ADDRESS: 4787 MARBLEHEAD BAY DR
APN: 122-386-02-00

OWNER: OH JONATHAN S; OH AUDREY E
ADDRESS: 4783 MARBLEHEAD BAY DR
APN: 122-386-01-00

OWNER: SOKOL JASON
ADDRESS: 4996 MACARIO DR
APN: 122-260-24-00

OWNER: AVILEZ JOSE & GLADYS LIVING TRUST
ADDRESS: 4998 MACARIO DR
APN: 122-260-23-00

OWNER: CRUZ FAMILY REVOCABLE TRUST
ADDRESS: 5000 MACARIO DR
APN: 122-260-22-00

OWNER: HURTADO ZENON P & MARIA L; CHAVEZ ISRAEL C
ADDRESS: 4999 MACARIO DR
APN: 122-260-01-00

OWNER: ORTIZ DIANA C & MITCHELL A C
ADDRESS: 531 ROJA ST
APN: 157-070-07-00

OWNER: HAYS EMMA G
ADDRESS: 4994 MALAGA DR
APN: 157-070-04-00

BLDG #1 FF=90.95 P=90.95
BLDG #2 FF=106.9 P=106.35
BLDG #3 FF=106.9 P=106.35
BLDG #4 FF=105.9 P=105.35
BLDG #5 FF=101.5 P=101.35
BLDG #6 FF=103.0 P=103.75
BLDG #7 FF=102.8 P=102.25
BLDG #8 FF=102.8 P=102.25
BLDG #9 FF=100.5 P=100.75
BLDG #10 FF=100.5 P=100.05
BLDG #11 FF=90.95 P=90.95
BLDG #12 FF=97.7 P=96.95
BLDG #13 FF=89.2 P=88.35
BLDG #14 FF=89.2 P=88.35
BLDG #15 FF=96.95 P=96.95
BLDG #16 FF=98.9 P=98.75
BLDG #17 FF=100.3 P=100.15
BLDG #18 FF=98.5 P=98.35
BLDG #19 FF=100.2 P=99.85
BLDG #20 FF=99.1 P=98.95
BLDG #21 FF=100.3 P=100.15
BLDG #22 FF=102.2 P=102.05
BLDG #23 FF=100.3 P=100.15
BLDG #24 FF=100.5 P=100.35
BLDG #25 FF=102.1 P=101.95

REPLACE EXIST. 6" WATER MAIN WITH 8" PVC MAIN
REPLACE EXIST. CROSS GUTTER
CONNECT TO EX. 24" STORM DRAIN
PROP. CURB & GUTTER AND SIDEWALK
CONNECT TO EXIST. 8" WATER MAIN
CONNECT TO EXIST. STREET IMPROVEMENTS
EXISITNG WALL TO REMAIN
6'x8' FILTERRA UNIT
PROP. 6" WATER
28' PUBLIC ACCESS & UTILITY ESMT.
PROP. 28' UTILITY & ACCESS ESMT.
PUBLIC SEWER LIFT STATION. PUBLIC ACCESS & UTILITY ESMT.
REA = 9,100 SF
LEV. = 94.0
LEV. = 88.0
CONNECT TO EXIST. CURB

SCALE 1" = 30'

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 FX(858)558-1414

TENTATIVE MAP / DEVELOPMENT PLAN

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 5 OF 10

WO # 3087-0010

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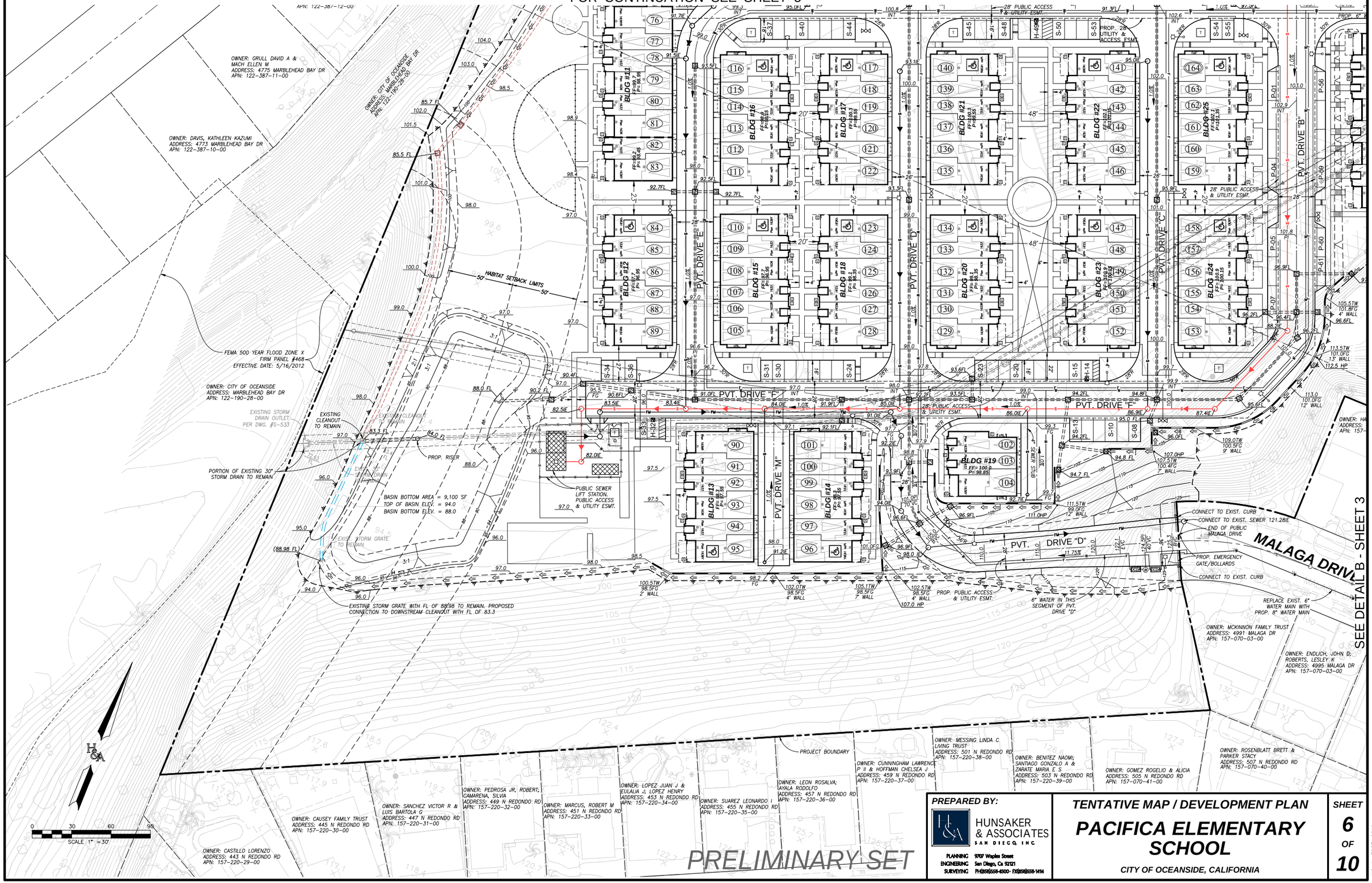
FOR CONTINUATION SEE SHEET 5



PRELIMINARY SET

PREPARED BY:
HUNSAKER & ASSOCIATES
SAN DIEGO, INC
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ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 · FX(858)558-1414

TENTATIVE MAP / DEVELOPMENT PLAN

PACIFICA ELEMENTARY SCHOOL

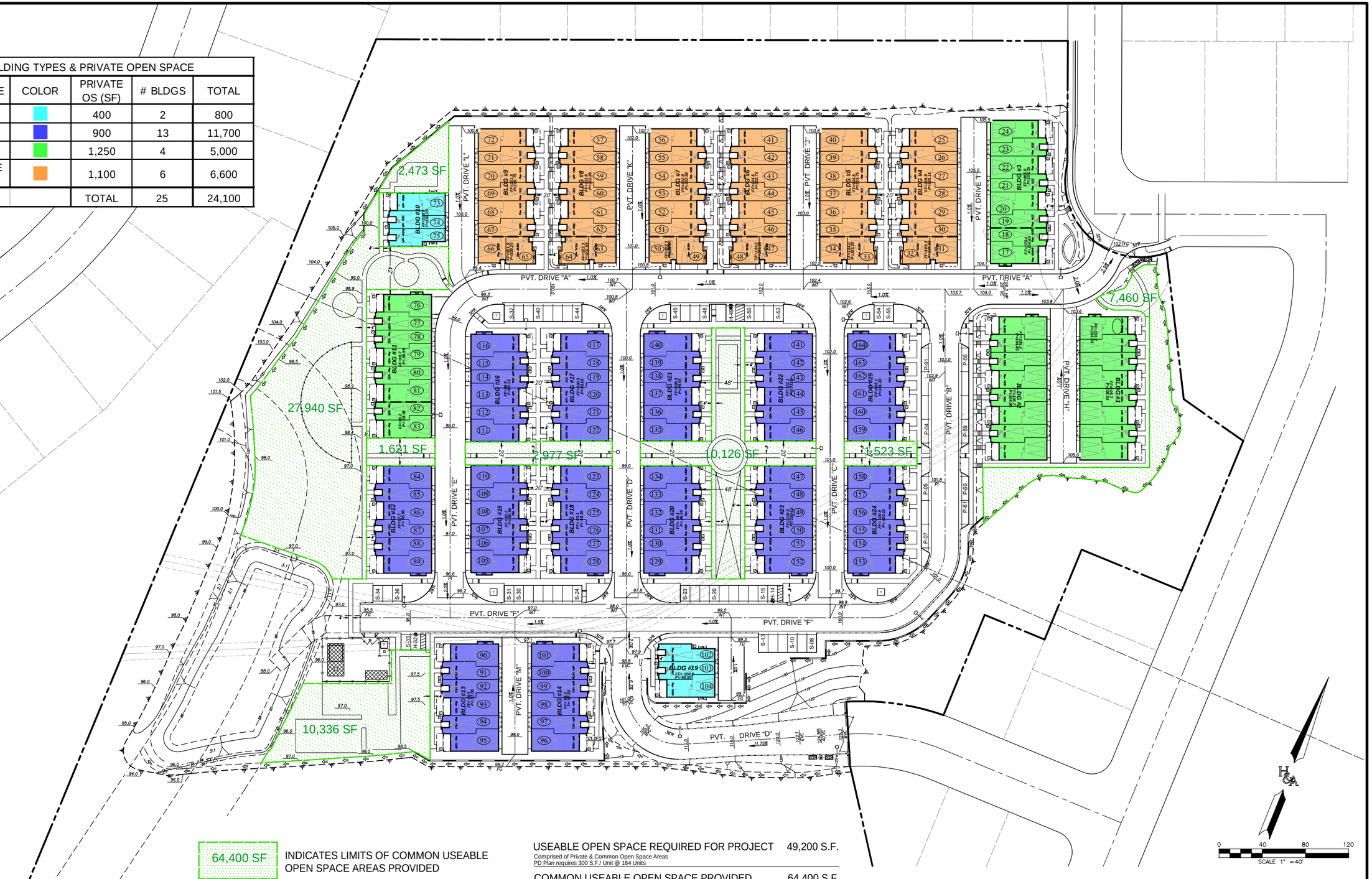
CITY OF OCEANSIDE, CALIFORNIA

SHEET 6 OF 10

WO # 3087-0010

R:\1714\&Pln\Tentative Map\Pacifica Elementary TM Sht 06.dwg[]Mar-29-2023:11:08

BUILDING TYPES & PRIVATE OPEN SPACE				
BUILDING TYPE	COLOR	PRIVATE OS (SF)	# BLDGS	TOTAL
3-PLEX		400	2	800
6-PLEX		900	13	11,700
8-PLEX		1,250	4	5,000
8-PLEX W/SIDE GARAGE		1,100	6	6,600
		TOTAL	25	24,100



64,400 SF — INDICATES LIMITS OF COMMON USEABLE OPEN SPACE AREAS PROVIDED

USEABLE OPEN SPACE REQUIRED FOR PROJECT Comprised of Private & Common Open Space Areas PD Plan requires 300 S.F./ Unit @ 164 Units	49,200 S.F.
COMMON USEABLE OPEN SPACE PROVIDED	64,400 S.F.
PRIVATE USEABLE OPEN SPACE PROVIDED Includes Priavte Yards, Patios, Balconies and Terraces	24,100 S.F.
TOTAL USEABLE OPEN SPACE PROVIDED	88,500 S.F.

PRELIMINARY SET

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH(858)558-4500 · FX(858)558-1414

OPEN SPACE & BUILDING TYPES

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 7 OF 10

WO # 3087-0010

EXCEPTIONS

1. GENERAL AND SPECIAL TAXES AND ASSESSMENTS FOR THE FISCAL YEAR 2022–2023 ARE EXEMPT.
   AFFECTS: PARCELS 1 AND 2
2. INTENTIONALLY DELETED
3. THE LIEN OF SUPPLEMENTAL TAXES, IF ANY, ASSESSED PURSUANT TO CHAPTER 3.5 COMMENCING WITH SECTION 75 OF THE CALIFORNIA REVENUE AND TAXATION CODE.

THE FOLLOWING MATTERS AFFECT PARCEL 1:

4. A CERTIFICATE OF INTEREST IN REAL PROPERTY, CERTIFICATE NO. 663 FILED BY THE DIRECTOR OF FINANCE OF THE STATE OF CALIFORNIA BY VIRTUE OF FUNDS APPORTIONED UNDER THE STATE SCHOOL BUILDING AID LAW OF 1952 (CM.10, DIV. 14, RD. CODE) AGAINST OCEANSIDE UNION SCHOOL DISTRICT RECORDED JANUARY 24, 1964 AS INSTRUMENT NO. 1964–14792 OFFICIAL RECORDS.

5. AN EASEMENT FOR SANITARY SEWER AND INCIDENTAL PURPOSES, RECORDED APRIL 24, 1972 AS INSTRUMENT NO. 1972–101357 OF OFFICIAL RECORDS.
   IN FAVOR OF: CITY OF OCEANSIDE, A MUNICIPAL CORPORATION
   AFFECTS: AS DESCRIBED THEREIN
   TO BE QUITCLAIMED

6. AN EASEMENT FOR STORM DRAIN FACILITIES AND INCIDENTAL PURPOSES, RECORDED APRIL 24, 1972 AS INSTRUMENT NO. 1972–101358 OF OFFICIAL RECORDS.
   IN FAVOR OF: CITY OF OCEANSIDE
   AFFECTS: AS DESCRIBED THEREIN
   TO BE QUITCLAIMED

7. AN EASEMENT FOR PUBLIC UTILITIES, INGRESS AND EGRESS AND INCIDENTAL PURPOSES, RECORDED NOVEMBER 28, 1972 AS INSTRUMENT NO. 1972–317614 OF OFFICIAL RECORDS.
   IN FAVOR OF: SAN DIEGO GAS AND ELECTRIC COMPANY
   AFFECTS: AS DESCRIBED THEREIN
   TO BE QUITCLAIMED

8. A LEASE DATED SEPTEMBER 1, 1997, EXECUTED BY OCEANSIDE UNIFIED SCHOOL DISTRICT AS LESSOR AND OCEANSIDE UNIFIED SCHOOL DISTRICT SCHOOL FACILITIES CORPORATION AS LESSEE, RECORDED SEPTEMBER 9, 1997 AS INSTRUMENT NO. 1997–0435456 OF OFFICIAL RECORDS.

   DEFECTS, LIENS, ENCUMBRANCES OR OTHER MATTERS AFFECTING THE LEASEHOLD ESTATE, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS.

9. A TRUST AGREEMENT BY AND BETWEEN OCEANSIDE UNIFIED SCHOOL DISTRICT SCHOOL FACILITIES CORPORATION AND CHASE TRUST COMPANY OF CALIFORNIA, AS TRUSTEE DATED SEPTEMBER 1, 1997 AND DISCLOSED BY THE SITE LEASE RECORDED SEPTEMBER 09, 1997 AS INSTRUMENT NO. 1997–0435456 OFFICIAL RECORDS.

10. AN EASEMENT FOR PUBLIC UTILITIES, INGRESS AND EGRESS AND INCIDENTAL PURPOSES, RECORDED SEPTEMBER 09, 2004 AS INSTRUMENT NO. 2004–0858474 OF OFFICIAL RECORDS.
    IN FAVOR OF: SAN DIEGO GAS AND ELECTRIC COMPANY, A CORPORATION
    AFFECTS: AS DESCRIBED THEREIN
    THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
    TO BE QUITCLAIMED

10A. THE LACK OF A RIGHT OF ACCESS TO AND FROM THE LAND.

THE FOLLOWING MATTERS AFFECT PARCEL 2:

11. THE RIGHT TO CONSTRUCT A DAM OR RESERVOIR ON WARNER'S RANCH IN SAN DIEGO COUNTY, AND THE RIGHT TO PERPETUALLY COLLECT AND IMPOUND ANY AND ALL WATERS OF THE SAN LUIS REY RIVER AND DIVERT SAID WATERS SO COLLECTED AND IMPOUNDED FORM THE SAN LUIS REY WATERSHED INTO OTHER WATERSHEDS AND PART OF SAN DIEGO COUNTY GIVEN TO ED FLETCHER, BY INSTRUMENT EXECUTED JANUARY 22, 1912 BY HUB FOUSSAT (OR H. FOUSSAT) RECORDED JANUARY 24, 1912 IN BOOK 546, PAGE 288, OF DEEDS.

12. THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "WATER AGREEMENT" RECORDED OCTOBER 17, 1963 AS INSTRUMENT NO. 1963–186423 OF OFFICIAL RECORDS.

13. THE EFFECT OF A MAP PURPORTING TO SHOW THE LAND AND OTHER PROPERTY, FILED IN MAP NO. 6402 OF RECORD OF SURVEYS.

14. INTENTIONALLY DELETED

14A. THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "MEMORANDUM OF AGREEMENT" RECORDED MAY 26, 2022 AS INSTRUMENT NO. 2022–0224911 OF OFFICIAL RECORDS.

14B. A DEED OF TRUST TO SECURE AN ORIGINAL INDEBTEDNESS OF $1,500,000.00 RECORDED MAY 26, 2022 AS INSTRUMENT NO. 2022–0224912 OF OFFICIAL RECORDS.
   DATED: MAY 29, 2022
   TRUSTOR: OCEANSIDE UNIFIED SCHOOL DISTRICT
   TRUSTEE: FIRST AMERICAN TITLE COMPANY, A CALIFORNIA CORPORATION
   BENEFICIARY: MLC HOLDINGS, INC., AN ARIZONA CORPORATION

15. NOTICE OF PENDENCY OF ACTION RECORDED SEPTEMBER 30, 2022 AS INSTRUMENT NO. 2022–0384473 OF OFFICIAL RECORDS.
    COURT: SUPERIOR COURT OF THE STATE OF CALIFORNIA COUNTY OF SAN DIEGO
    CASE NO.: (BLANK)
    PLAINTIFF: MLC HOLDINGS, INC., AS CONDITIONAL ASSIGNEE OF OCEANSIDE UNIFIED SCHOOL DISTRICT
    DEFENDANT: SPROUL CONSTRUCTION CORPORTATION, ET–AL
    PURPOSE: A REAL PROPERTY CLAIM ON TITLE

THE FOLLOWING MATTERS AFFECT BOTH PARCELS:

16. RIGHTS OF THE PUBLIC IN AND TO THAT PORTION OF THE LAND LYING WITHIN ANY ROAD, STREET, ALLEY OR HIGHWAY.

17. WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS.

18. RIGHTS OF PARTIES IN POSSESSION.

TITLE REFERENCE

THIS SURVEY IS BASED ON THE PRELIMINARY TITLE REPORT ISSUED BY FIRST AMERICAN TITLE COMPANY AS ORDER NO. NHSC–6695058 (jd) DATED NOVEMBER 7, 2022.

LEGAL DESCRIPTION

REAL PROPERTY IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL 1: (APNS: 157–070–42–00 AND 122–190–19–00)

THAT PORTION OF LOT 2 IN SECTION 4, TOWNSHIP 11 SOUTH, RANGE 4 WEST, SAN BERNARDINO BASE AND MERIDIAN, TOGETHER WITH A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 10 SOUTH, RANGE 4 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO UNITED STATES GOVERNMENT SURVEY, ALL BEING IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND MORE PARTICULARLY DESCRIBED AS A WHOLE AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF MISSION VALLEY ESTATES UNIT NO. 2, ACCORDING TO MAP NO. 5176, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, MAY 15, 1963, BEING ALSO A POINT ON THE NORTH–SOUTH CENTER LINE OF SAID SECTION 4; THENCE ALONG SAID NORTH–SOUTH CENTER LINE NORTH 00°02'37" WEST, 645.03 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 4, BEING ALSO THE SOUTH QUARTER CORNER OF SAID SECTION 33; THENCE ALONG THE WESTERLY LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 33, NORTH 00°14'52" WEST, 243.33 FEET; THENCE NORTH 67°39'05" EAST, 615.51 FEET; THENCE SOUTH 27°56'06" EAST, 128.60 FEET; THENCE SOUTH 56°09'13" EAST, 24.47 FEET TO A POINT ON THE ARC OF A NON–TANGENT 62.00 FOOT RADIUS CURVE, CONCAVE NORTHEASTERLY, A RADIAL LINE OF SAID CURVE BEARS NORTH 56°09'13" WEST TO SAID POINT; THENCE COUNTER–CLOCKWISE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 219°5'744" A DISTANCE OF 238.02 FEET; THENCE SOUTH 29°10'15" EAST, 115.00 FEET: THENCE SOUTH 77°16'24" EAST, 67.36 FEET TO THE NORTHWESTERLY CORNER OF ROJA DRIVE AS SHOWN ON MISSION VALLEY ESTATES UNIT NO. 4, ACCORDING TO MAP NO. 5496, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, NOVEMBER 13, 1964; THENCE ALONG THE BOUNDARY OF SAID MAP NO. 5496 AS FOLLOWS: SOUTH 00°07'41" EAST, (RECORD – SOUTH 00°09'46" EAST) 150.00 FEET; SOUTH 89°52'19" WEST, (RECORD – SOUTH 89°50'14" WEST) 100.00 FEET; SOUTH 00°07'41" EAST, (RECORD – SOUTH 00°09'46" EAST) 90.00 FEET; SOUTH 89°52'19" WEST, (RECORD – SOUTH 89°50'14" WEST) 60.00 FEET; SOUTH 00°07'41" EAST, (RECORD – SOUTH 00°09'46" EAST) 100.33 FEET TO A POINT ON THE ARC OF A NON–TANGENT 230.00 FOOT RADIUS CURVE, CONCAVE SOUTHEASTERLY, A RADIAL LINE OF SAID CURVE BEARS NORTH 03°10'42" WEST, (RECORD – NORTH 03°12'47" WEST) TO SAID POINT; SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 22°49'21" A DISTANCE OF 91.62 FEET; SOUTH 26°00'03" EAST, (RECORD – SOUTH 26°02'08" EAST) 60.00 FEET; AND SOUTH 35°08'07" EAST, (RECORD – SOUTH 35°10'12" EAST) 101.28 FEET TO THE MOST NORTHERLY CORNER OF LOT 260 OF MISSION VALLEY ESTATES UNIT NO. 3, ACCORDING TO MAP NO. 5246, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, AUGUST 26, 1963; THENCE ALONG THE NORTHWESTERLY LINE OF SAID LOT 260, SOUTH 63°59'10" WEST, (RECORD – SOUTH 63°57'52" WEST) 92.29 FEET TO THE MOST NORTHERLY CORNER OF LOT 259 OF SAID MAP NO. 5176; THENCE ALONG THE NORTHWESTERLY LINE OF SAID MAP NO. 5176, SOUTH 63°59'10" WEST, 709.39 FEET (RECORD – SOUTH 63°57'52" WEST, 710.32 FEET) TO THE POINT OF BEGINNING.

PARCEL 2: (APN: 122–190–22–00)

LOT 6 AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 10 SOUTH, RANGE 4 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF. EXCEPTING FROM SAID LOT 6 ANY PORTION THEREOF UNDERLYING THE WATERS OF THAT CERTAIN POND OR LAKE AS SURVEYED AND SHOWN ON THE OFFICIAL PLAT THEREOF.

ALSO EXCEPTING FROM SAID LOT 6 A STRIP OF LAND 15 FEET IN WIDTH, ADJOINING THE MEANDER LINE OF SAID POND OR LAKE ON THE SOUTHEAST, AS CONVEYED TO JOHN JOHNSTON, JR., BY DEED FROM HUBERT FOUSSAT AND WIFE, DATED MARCH 17, 1912 AND RECORDED IN BOOK 555, PAGE 23, OF DEEDS.

ALSO EXCEPTING FROM THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 33 THAT PORTION LYING WITHIN MISSION VALLEY ESTATES UNIT NO. 4, ACCORDING TO MAP THEREOF NO. 5496, FILED IN THE OFFICE OF COUNTY RECORD OF SAN DIEGO COUNTY, NOVEMBER 13, 1964.

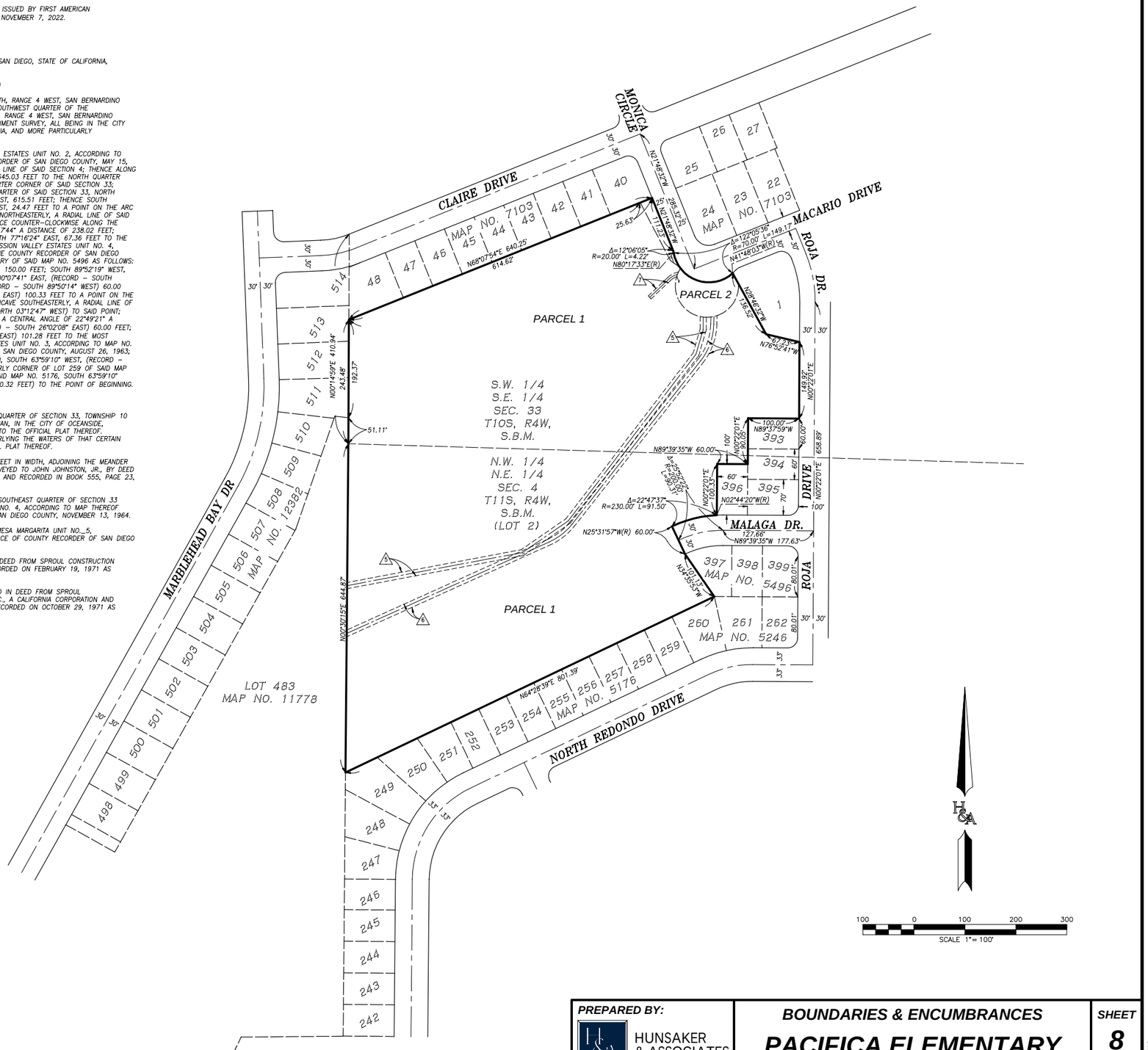
ALSO EXCEPTING THEREFROM THAT PORTION LYING WITHIN MESA MARGARITA UNIT NO._5, ACCORDING TO MAP THEREOF NO. 6230, FILED IN THE OFFICE OF COUNTY RECORDER OF SAN DIEGO COUNTY, NOVEMBER 21, 1968.

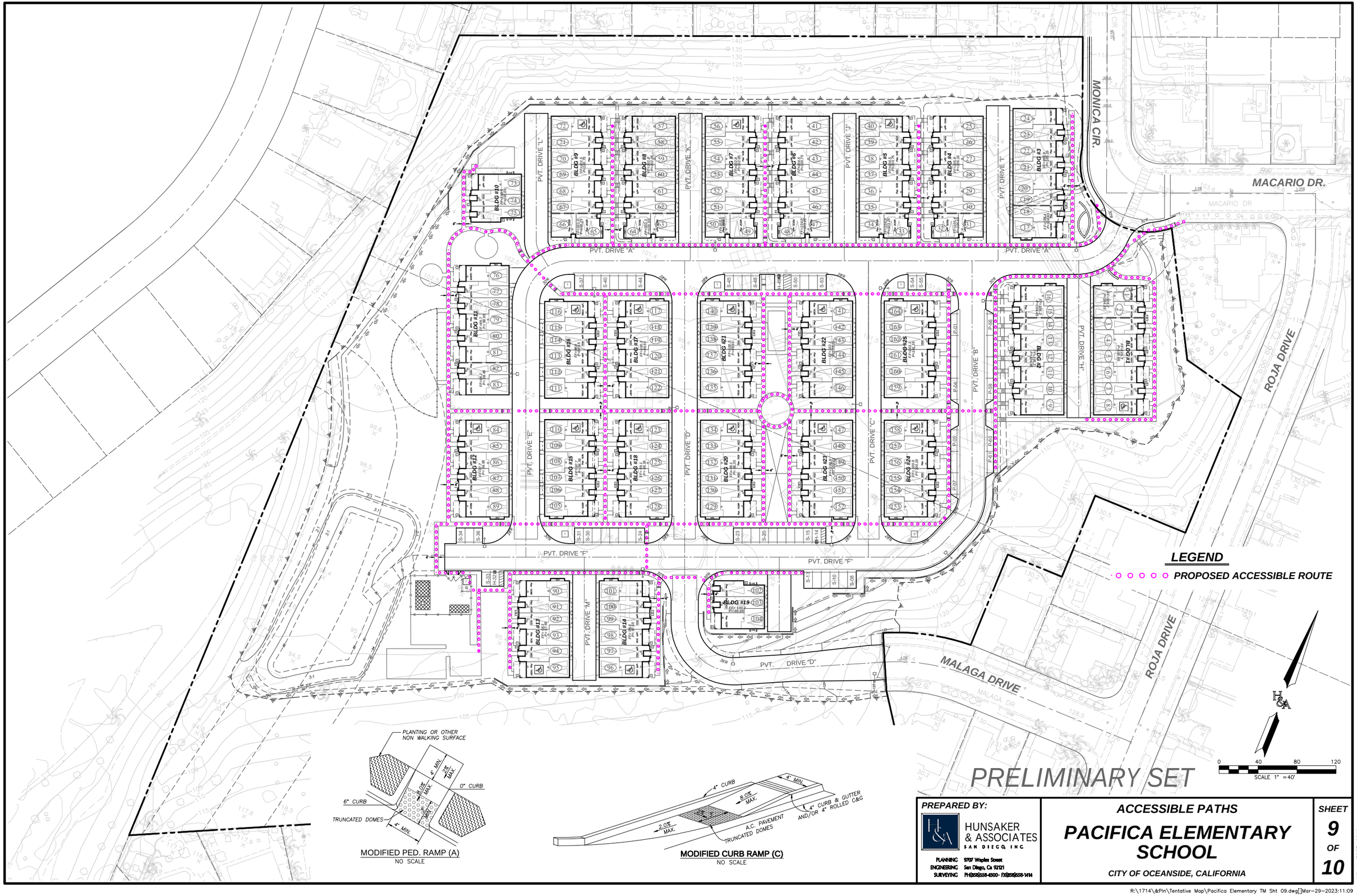
ALSO EXCEPTING THEREFROM THAT PORTION DESCRIBED IN DEED FROM SPROUL CONSTRUCTION CORPORATION TO OCEANSIDE UNION SCHOOL DISTRICT, RECORDED ON FEBRUARY 19, 1971 AS INSTRUMENT NO. 31900, OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM, ALL THAT PORTION DESCRIBED IN DEED FROM SPROUL CONSTRUCTION CORPORATION TO HILL TOP DEVELOPERS, INC., A CALIFORNIA CORPORATION AND CHALLENGE BUILDERS, INC., A CALIFORNIA CORPORATION, RECORDED ON OCTOBER 29, 1971 AS INSTRUMENT NO. 250639, OF OFFICIAL RECORDS.

ASSESSOR'S PARCEL NUMBERS

157–070–42–00
122–190–19–00
122–190–22–00


CLAIRE DRIVE
MONICA CIRCLE
MACARIO DRIVE
ROJA DR.
MARBLEHEAD BAY DR
MAP NO. 7103
MAP NO. 12382
LOT 483
MAP NO. 11778
PARCEL 1
PARCEL 2
S.W. 1/4 S.E. 1/4 SEC. 33 T10S, R4W, S.B.M.
N.W. 1/4 N.E. 1/4 SEC. 4 T11S, R4W, S.B.M. (LOT 2)
MALAGA DR.
NORTH REDONDO DRIVE
MAP NO. 5496
MAP NO. 5176
MAP NO. 5246
N68°07'54"E 640.25'
614.62'
N64°28'39"E 801.39'
N00°14'59"E 410.94'
243.48'
192.37'
N00°07'55"E 644.87'
N89°39'35"W 60.00'
N89°39'35"W 177.63'
N89°37'59"W 393.00'
N00°22'01"E 658.89'
N00°22'01"E 149.97'
N00°22'01"E 100.33'
N00°07'55"E 100.00'
N00°07'55"E 150.00'
N00°07'55"E 90.00'
N00°07'55"E 60.00'
N00°07'55"E 100.00'
N00°07'55"E 60.00'
N00°07'55"E 100.00'
N00°07'55"E 60.00'
N00°07'55"E 100



MODIFIED PED. RAMP (A)
NO SCALE

MODIFIED CURB RAMP (C)
NO SCALE

PREPARED BY:
HUNSAKER & ASSOCIATES SAN DIEGO, INC
PLANNING
ENGINEERING
SURVEYING
9707 Waples Street
San Diego, Ca 92121
PH(858)558-4500 FX(858)558-1414

ACCESSIBLE PATHS

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 9 OF 10

WO # 3087-0010

R:\1714\&Pln\Tentative Map\Pacifica Elementary TM Sht 09.dwg[]Mar-29-2023:11:09

MONICA CIR.

MACARIO DR.

ROJA DRIVE

MALAGA DRIVE

PVT. DRIVE "A"

PVT. DRIVE "B"

PVT. DRIVE "C"

PVT. DRIVE "D"

PVT. DRIVE "E"

PVT. DRIVE "F"

PVT. DRIVE "H"

PVT. DRIVE "I"

PVT. DRIVE "J"

PVT. DRIVE "K"

PVT. DRIVE "L"

PVT. DRIVE "M"

BLDG #1 FF=109.2 PF=98.45

BLDG #2 FF=109.2 PF=98.45

BLDG #3 FF=109.2 PF=98.45

BLDG #4 FF=109.2 PF=98.45

BLDG #5 FF=109.2 PF=98.45

BLDG #6 FF=109.2 PF=98.45

BLDG #7 FF=109.2 PF=98.45

BLDG #8 FF=109.2 PF=98.45

BLDG #9 FF=109.2 PF=98.45

BLDG #10 FF=109.2 PF=98.45

BLDG #11 FF=109.2 PF=98.45

BLDG #12 FF=109.2 PF=98.45

BLDG #13 FF=109.2 PF=98.45

BLDG #14 FF=109.2 PF=98.45

BLDG #15 FF=109.2 PF=98.45

BLDG #16 FF=109.2 PF=98.45

BLDG #17 FF=109.2 PF=98.45

BLDG #18 FF=109.2 PF=98.45

BLDG #19 FF=109.2 PF=98.45

BLDG #20 FF=109.2 PF=98.45

BLDG #21 FF=109.2 PF=98.45

BLDG #22 FF=109.2 PF=98.45

BLDG #23 FF=109.2 PF=98.45

BLDG #24 FF=109.2 PF=98.45

BLDG #25 FF=109.2 PF=98.45

PRELIMINARY SET

0 40 80 120

SCALE 1" =40'

PREPARED BY:

HUNSAKER & ASSOCIATES SAN DIEGO, INC

PLANNING ENGINEERING SURVEYING

9707 Waples Street
San Diego, Ca 92121
PH(858)558-4500 FX(858)558-1414

CONCEPTUAL SITE SETBACKS

PACIFICA ELEMENTARY SCHOOL

CITY OF OCEANSIDE, CALIFORNIA

SHEET 10 OF 10

WO # 3087-0010

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ATTACHMENT 5
Drainage Report

This is the cover sheet for Attachment 5.

Placeholder – **Drainage Report**

Replace placeholder with drainage report.

Attach project's drainage report. Refer to Drainage Design Manual to determine the reporting requirements.

DRAINAGE STUDY
for
PACIFICA ELEMENTARY SCHOOL

City of Oceanside, California

Prepared for:

Meritage Homes
Johanna Crooker
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

W.O. 3087-0010

Prepared: June 13, 2022
Revised: November 15, 2022
March 22, 2023

Prepared by:

Hunsaker & Associates
9707 Waples St.
San Diego, CA 92121
(858) 558-4500

Alisa S. Vialpando 03/22/2023

Alisa S. Vialpando, RCE # 47945
Date President

Table of Contents

1. Introduction 1
   1.1. Scope of Work 1
   1.2. Existing Condition 1
   1.3. Proposed Condition 2
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   2.2 Detention Analysis 6
3. Results 7
4. Conclusions 7
5. References 8

Appendix
   1 – Vicinity Map and FIRM Map
   2 – Soils Information
   3 – Runoff Coefficient Determination
   4 – Design Rainfall Determination
   5 – Existing & Proposed Hydrology Calculations and Exhibits
   6 – Detention Calculations

ATTACHMENT 6
Geotechnical and Groundwater Investigation Report

This is the cover sheet for Attachment 6.

GEOTEK

PRELIMINARY GEOTECHNICAL EVALUATION REPORT
PROPOSED PACIFICA ELEMENTARY RE-DEVELOPMENT
ASSESSOR PARCEL NUMBERS:
122-190-22-00
122-190-19-00
157-070-42-00
OCEANSIDE, CALIFORNIA

PREPARED FOR

MLC HOLDINGS, INC.
5 Peters Canyon Road, Suite 310
Irvine, California 92606

PREPARED BY

GEOTEK, INC.
1384 POINSETTIA AVENUE, SUITE A
VISTA, CALIFORNIA 92081

PROJECT NO. 3743-SD **JANUARY 19, 2022**

GeoTek, Inc.
1384 Poinsettia Avenue, Suite A Vista, CA 92081-8505
(760) 599-0509 Office (760) 599-0593 Fax www.geotekusa.com

January 19, 2022
Project No. 3743-SD

MLC Holdings, Inc.
5 Peters Canyon, Suite 310
Irvine, CA 92606

Attention: Ms. Johanna Crooker

Subject: **Preliminary Geotechnical Evaluation Report**
Proposed Pacifica Elementary Re-Development
APN: 122-190-22-00, 122-190-19-00, and 157-070-42-00
Oceanside, California

Dear Ms. Crooker:

GeoTek, Inc. (GeoTek) is pleased to present the results of this preliminary geotechnical evaluation for the subject project located in the City of Oceanside, California. This report presents a discussion of GeoTek's field evaluation, analyses, and suitability of the site soils to support the proposed improvements. Based upon review, site development appears feasible from a geotechnical viewpoint provided that recommendations presented in this report are incorporated into the design and construction phases of the project.

We appreciate the opportunity to be of service on this project. Please contact the undersigned if you have any questions.

Respectfully submitted,
GeoTek, Inc.

Christopher D. Livesey
CEG 2733, Exp. 05/31/23
Associate Vice President

Gaby M. Bogdanoff
GE 3133, Exp. 06/30/22
Project Engineer

Distribution: (1) Addressee

ATTACHMENT 7
Storm Water Quality Assessment Form

This is the cover sheet for Attachment 7.

City of Oceanside – Engineering Division – Clean Water Program

STORM WATER QUALITY ASSESSMENT FOR PLANNING, ENGINEERING, AND BUILDING PERMIT APPLICATIONS

All applications for Planning, Engineering, or Building Division permits are required to complete this assessment form and include it as part of the initial permit application submittal. Staff will review the permit application content to determine the applicability of State and City storm water requirements. Please note a storm water assessment cannot be provided without a complete permit application package.

Section 1 – Project Information	
Applicant Name: Aaron Talarico, MLC Holdings, Inc.	Phone Number: (949) 372-3309
Project Name: Pacifica Elementary School	Project Site Address: Roja Drive and Macario Drive, Oceanside, CA 92054
Permit Applications Number(s): GPA22-00001	Assessor Parcel Number(s): 157-070-42, 122-190-19, & 122-190-22
Project Description: 14.55 acre site - City of Oceanside. Partially developed. Multi-family - 164 Residential Units.	Project Disturbed Area (square feet): 443,150 sft
Existing Impervious Area (square feet): 219,133 sq. ft	Created or Replaced Impervious Area (square feet): 312,149 sft

Section 2 – Identify Applicable Priority Development Project Categories (Check All Boxes that Apply)	
☐	**New Development Project** – A project that creates 10,000 square feet or more of impervious surfaces (collectively over the entire project site). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.
[X	**Redevelopment Project** – A project that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the entire project site on an existing site of 10,000 square feet or more of impervious surfaces). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.
☐	**Restaurants** – Category is defined as a facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC code 5812); where new or redevelopment projects create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
☐	**Hillside Development** – Category includes development on any natural slope that is twenty-five percent or greater; where new or redevelopment projects create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
X	**Parking Lots** – Category is defined as a land area or facility for the temporary parking or storage of motor vehicles used personally, for business, or for commerce; where new or redevelopment projects create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
X	**Streets, Roads, Highways, Freeways, and Driveways** – Category is defined as any paved impervious surface used for the transportation of automobiles, trucks, motorcycles, and other vehicles; where new or redevelopment projects that create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
☐	**Water Quality Environmentally Sensitive Area** – New or redevelopment projects that create and/or replace 2,500 square feet or more of impervious surface (collectively over the entire project site), and discharge directly to a Water Quality Environmentally Sensitive Area (WQESA). "Discharge directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the WQESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands).
☐	**Automotive Repair Shop** – Category is defined as a facility that is categorized in any one of the following Standard Industrial Classification (SIC) codes: 5013, 5014, 5541, 7532-7534, or 7536-7539, where new or redevelopment projects create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
☐	**Retail Gasoline Outlet (RGOs)** – Category includes RGOs that meet the following criteria (a) 5,000 square feet or more or (b) a projected Average Daily Traffic (ADT) of 100 or more vehicles per day; where new or redevelopment projects create and/or replace 5,000 square feet or more impervious surface (collectively over the entire project site).
X	**Development Projects greater than one acre** – New or redevelopment projects that result in the disturbance of one or more acres of land and are expected to generate pollutants post construction.

STORM WATER QUALITY ASSESSMENT FOR PLANNING, ENGINEERING, AND BUILDING PERMIT APPLICATIONS

Section 3 – Identify Projects Not Subject to Permanent Stormwater Requirements (Check All Boxes that Apply)	
☐	The project consists of work entirely within an existing structure.
☐	The project consists of construction of overhead or underground utilities (no new impervious surfaces).
☐	The project consists of routine maintenance.
☐	The project consists of less than 50 yards of grading and presents no opportunities to improve water quality.
Section 4 – Project Category Determination	
X	**Priority Development Project**: If any item in Section 2 is applicable, the project is a Priority Development Project. **Please prepare a PDP SWQMP for the project.**
☐	**Standard Development Project**: If none of the items in Section 2 or 3 are applicable, the project is a Standard Development Project. **Please prepare an SDP SWQMP.**
☐	**Project Not Subject to Permanent Stormwater Requirements:** If any item in Section 3 is applicable, the project is not subject to Permanent Stormwater Requirements. **Please submit the project plans with this form.** **Note:** Projects in this category are subject to typical pollution prevention measures outlined by the pollution prevention checklist on the following page.

Section 5 – Applicant Certification	
Name of Responsible Party: Aaron Talarico, MLC Holdings, Inc.	Title: Division Vice President
Email Address (optional) aaron.talarico@mlcholdings.net	Phone Number: (949) 372-3309
I understand and acknowledge the City of Oceanside has adopted minimum requirements, as mandated by the San Diego Regional Water Quality Control Board – Order No. R9-2013-0001, as amended by Order Nos. R9-2015-0001 and R9-2015-0100 (NPDES NO. CAS0109266) for mitigating impacts associated with urban runoff, including storm water from construction and land development activities. I certify this assessment has been accurately completed to the best of my knowledge and is consistent with the proposed project. I acknowledge that non-compliance with the City Best Management Practice (BMP) Design Manual, Grading Ordinance, and Erosion Control Ordinance may result in enforcement action by the City, the California State Water Resources Control Board, and/or the San Diego Regional Water Quality Control Board. Enforcement action may include stop work orders, notice of violation, fines, or other actions.	
Applicant Signature:	Date: 11/17/22

Stormwater Pollution Prevention Measures for Projects Not Subject to Permanent Stormwater Requirements

Project Activity	Yes	No	Required Pollution Prevention
Trash & Waste Generation *****REQUIRED FOR ALL PROJECTS*****	☐	☐	• Train/inform all employees of pollution prevention requirements • Collect and contain all construction trash, waste, and debris • Promptly contain and clean any spill on site • Routinely inspect site, remove loose trash and prevent spills • Properly dispose of any hazardous materials • Do not wash down surfaces unless water is collected or directed to landscape • Permanent trash collection areas require full structure/enclosure
Digging of Dirt – excavation, trenching, or grading	☐	☐	• Do not allow dirt to migrate into street, sidewalk, or storm drain • Preserve existing vegetation where feasible • Perimeter site controls such as silt fence or straw wattles • Cover exposed dirt using mulch, tarps, or erosion control devices • Install and secure tarps over dirt piles • Routinely sweep site to remove dirt
Landscaping and Irrigation Systems	☐	☐	• Do not store landscape materials in street • Do not allow dirt to migrate into street, sidewalk, or storm drain • Test irrigation system and prevent runoff/overspray • Install and secure tarps over piles of mulch or soil • Routinely sweep site to remove mulch or soil • Do not wash down surfaces unless water is collected or directed to landscape
Concrete, Paint, Mortar, or Stucco Work	☐	☐	• Contain wet mixing areas within confined area • Do not allow material to travel into site soil, street, or storm drain • Properly dispose of waste material
Temporary Storage of Materials Outside	☐	☐	• Elevate material off ground where possible, such as on pallets • Install and secure tarps over materials
Demolition of Structures	☐	☐	• Follow Required Pollution Prevention for “Digging of Dirt”
New Structure – house addition, shed, etc.	☐	☐	• Follow Required Pollution Prevention for “Digging of Dirt” • Direct downspouts to landscape, where feasible • Consider rainwater harvesting • Preserve existing vegetation and drainage patterns, where feasible
Patio, Driveway, or Sidewalk	☐	☐	• Consider use of pervious pavers or pervious concrete (refer to Section 3 of page 4 for routine maintenance information) • Direct runoff to landscape areas, where feasible
Re-Roofing	☐	☐	• Contain removed roof debris in waste containers • Follow Required Pollution Prevention for “Temporary Storage of Materials Outside”
Washing of Material, Equipment, or Surface	☐	☐	• Do not wash down surfaces unless water is collected or directed to landscape
Draining of Water Heater, Pool, or Spa	☐	☐	• Direct drain water to landscape areas where possible • Contact Stormwater Division if considering draining to sanitary system cleanout or storm drain system (760-643-2804)
Storm Drain at Industrial or Commercial Property	☐	☐	• Install “No Dumping” or similar signage at each storm drain inlet

Completion Guidance

Please note – the Applicant is required to complete and submit this form as part of the project application. For definitions and additional information, please refer to the City of Oceanside BMP Design Manual. For assistance, please contact Development Services Staff at (760) 435-4373.

Section 1 – Project Information

1. Applicant Name – provide name of Individual completing form, i.e. Owner or Owner Representative
2. Phone Number – provide phone number of Individual completing form, i.e. Owner or Owner Representative
3. Project Name – provide project name (consistent with project application)
4. Project Site Address – provide a physical address for the proposed project, or nearest cross street
5. Permit Application Number(s) – provide all applicable permit application numbers
6. Assessor Parcel Number(s) – provide Assessor Parcel Number(s); refer to title documents or contact City Staff for assistance
7. Project Description – provide a brief project description (e.g. single-family dwelling, retail business, repair shop, etc)
8. Project Disturbed Area – provide the disturbed area for the entire project, including onsite and offsite work
9. Existing Impervious Area – provide the total existing impervious area within the property and project boundary
10. Created or Replaced Impervious Area – provide the total area of all newly created or replaced impervious surfaces within the project area

Section 2 – Identify Applicable Priority Development Project Categories

1. Review each category and check the appropriate boxes that apply to your project.
2. General identification of Automotive Repair Shop SIC (Standard Industrial Classifications) as follows:
   5013 – Motor vehicle supplies and new parts, 5014 – Tires and tubes, 5541 – Gasoline service stations, 7532 – Top and body repair, and paint shops, 7533 – Auto exhaust system repair shops, 7534 – Tire retreading and repair shops, 7536 – Automotive glass replacement shops, 7537 – Automotive transmission repair shops, 7538 – General automotive repair shops, 7539 – Automotive repair shops-not elsewhere classified
3. Contact Staff for assistance in determining applicability of the Water Quality Environmentally Sensitive Area (WQESA) category

Section 3 – Identify Projects Not Subject to Permanent Stormwater Requirements

1. Please refer to Page 1-6 of the City of Oceanside BMP Design Manual for a complete list of routine maintenance activities.
2. Activities that expose native subgrade in the process of replacing impervious surfaces, are not considered routine maintenance.

Section 4 – Project Category Determination

1. PDP SWQMP – Priority Development Project Stormwater Quality Management Plan
2. SDP SWQMP – Standard Development Project Stormwater Quality Management Plan
3. Contact Staff for assistance in determining the Project Category

Section 5 – Applicant Certification

1. Name of Responsible Party – provide name of Owner
2. Title of Responsible Party – provide responsible party's title, if applicable
3. Phone Number – provide phone number of Owner
4. Email Address (Optional) – provide email address
5. Applicant Signature – provide signature of Individual completing form, i.e. Owner or Owner Representative
6. Date – provide date current date

[Insert other supporting documentation here]

Appendix J
Noise Technical Report

Noise Technical Report

Pacifica Development Project

City of Oceanside, California

APRIL 2023

Prepared for:

MLC HOLDINGS
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

Prepared by:

DUDEK

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Oceanside
CNEL	Community Noise Equivalent Level
dB	decibel
dBA	A-weighted decibel
FTA	Federal Transit Administration
ips	inches per second
L_{dn}	day–night average noise level
L_{eq}	equivalent noise level
L_{max}	maximum sound level
L_{min}	minimum sound level
Pacifica Development Project	proposed project
PPV	peak particle velocity
RCNM	Roadway Construction Noise Model
SLM	Sound level meter
SPL	Sound pressure level
ST	Short-term
STC	Sound Transmission Class
VdB	Velocity Decibel

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1 Introduction

1.1 Report Purpose and Scope

This technical noise report evaluates the potential noise impacts during construction and operation of the proposed Pacifica Housing Project (proposed project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act Guidelines (14 CCR 15000 et seq.).

1.2 Project Location and Description

The Pacifica Planned Development Plan planning area encompasses approximately 14.55 gross acres. As illustrated in Figure 1. Project Location, the planning area is situated in the northeast portion of the City of Oceanside in the North Valley neighborhood. The planning area is located approximately 0.5 mile from the San Luis Rey Transit Center and 1.5 miles from Highway 76.

The proposed project consists of a for-sale 164-unit Planned Development Community to be developed on a 14.55 acre site located at the former Pacifica Elementary School site at 4991 Macario Drive. The neighborhood will consist of three-story attached townhomes oriented towards internal paseos and drives throughout the site. New homes will range in size from a minimum of approximately 1200 square feet to 1800 square feet with two (2) to three (3) bedrooms and an attached 2-car garage (either side-by-side or tandem configuration). Each home will include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 57,900 square feet of open space, will be designed with urban-style amenities such as tot lots, an off-leash dog space, pickle ball courts, bocce ball areas, barbecue areas, and space for a variety of outdoor games.

1.3 Fundamentals of Noise and Vibration

The following is a brief discussion of fundamental noise concepts and terminology.

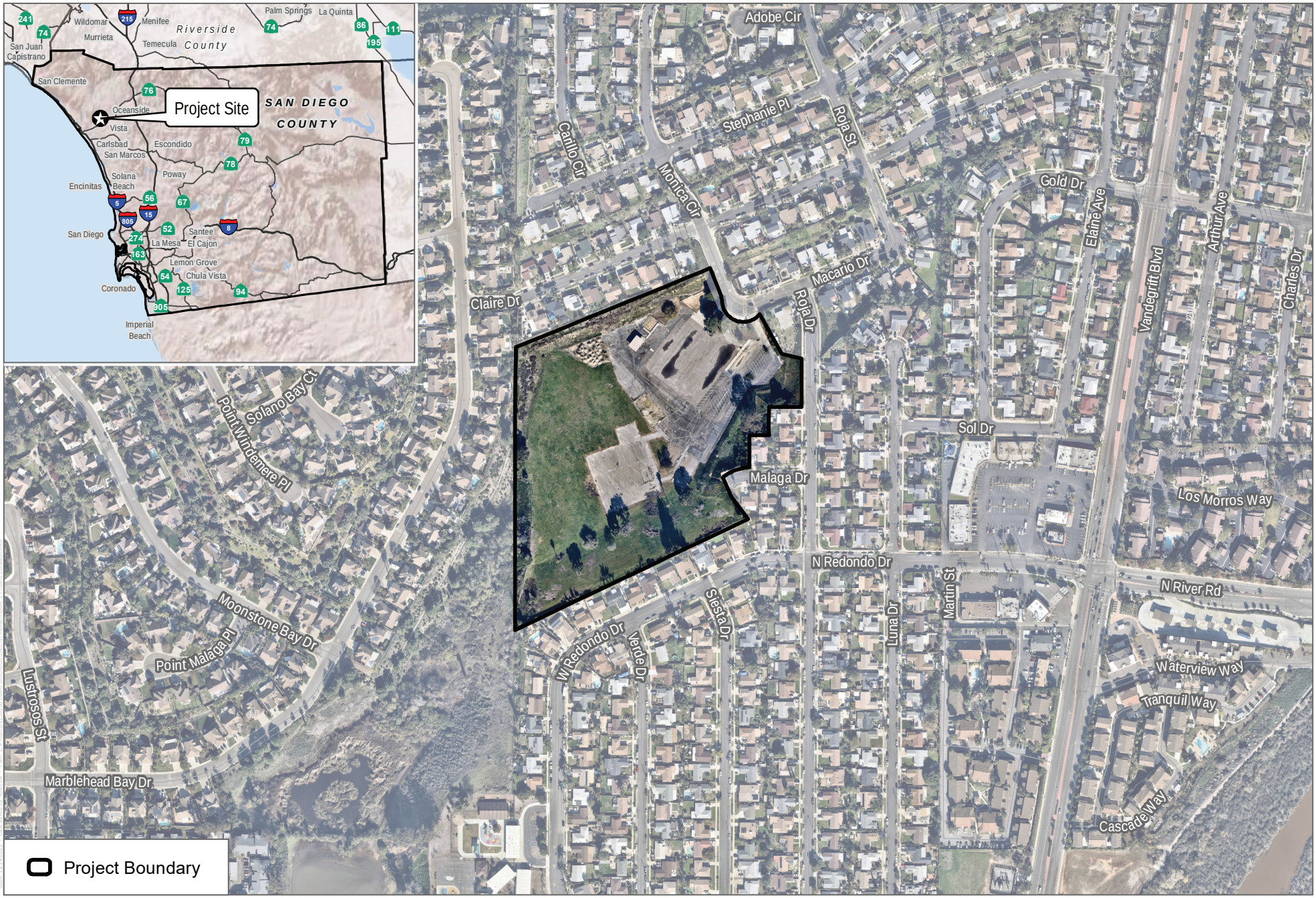
1.3.1 Sound, Noise, and Acoustics

Sound is actually a process that consists of three components: the sound source, sound path, and sound receiver. All three components must be present for sound to exist. Without a source to produce sound, there is no sound. Similarly, without a medium to transmit sound pressure waves, there is no sound. Finally, sound must be received; a hearing organ, sensor, or object must be present to perceive, register, or be affected by sound or noise. In most situations, there are many different sound sources, paths, and receptors rather than just one of each. Acoustics is the field of science that deals with the production, propagation, reception, effects, and control of sound. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired.

1.3.2 Sound Pressure Levels and Decibels

The amplitude of a sound determines its loudness. Loudness of sound increases with increasing amplitude. Sound pressure amplitude is measured in units of micronewton per square meter, also called micropascal. One micropascal is approximately one-hundred billionth (0.00000000001) of normal atmospheric pressure. The pressure of a very

loud sound may be 200 million micropascals, or 10 million times the pressure of the weakest audible sound. Because expressing sound levels in terms of micropascal would be very cumbersome, sound pressure level in logarithmic units is used instead to describe the ratio of actual sound pressure to a reference pressure squared. These units are called Bels. To provide a finer resolution, a Bel is subdivided into 10 decibels (dB).



SOURCE: SanGIS 2019, Open Streets Map 2019

DUDEK

0 150 300 Feet

FIGURE 1

Project Location

Pacifica Elementary Housing Development Project

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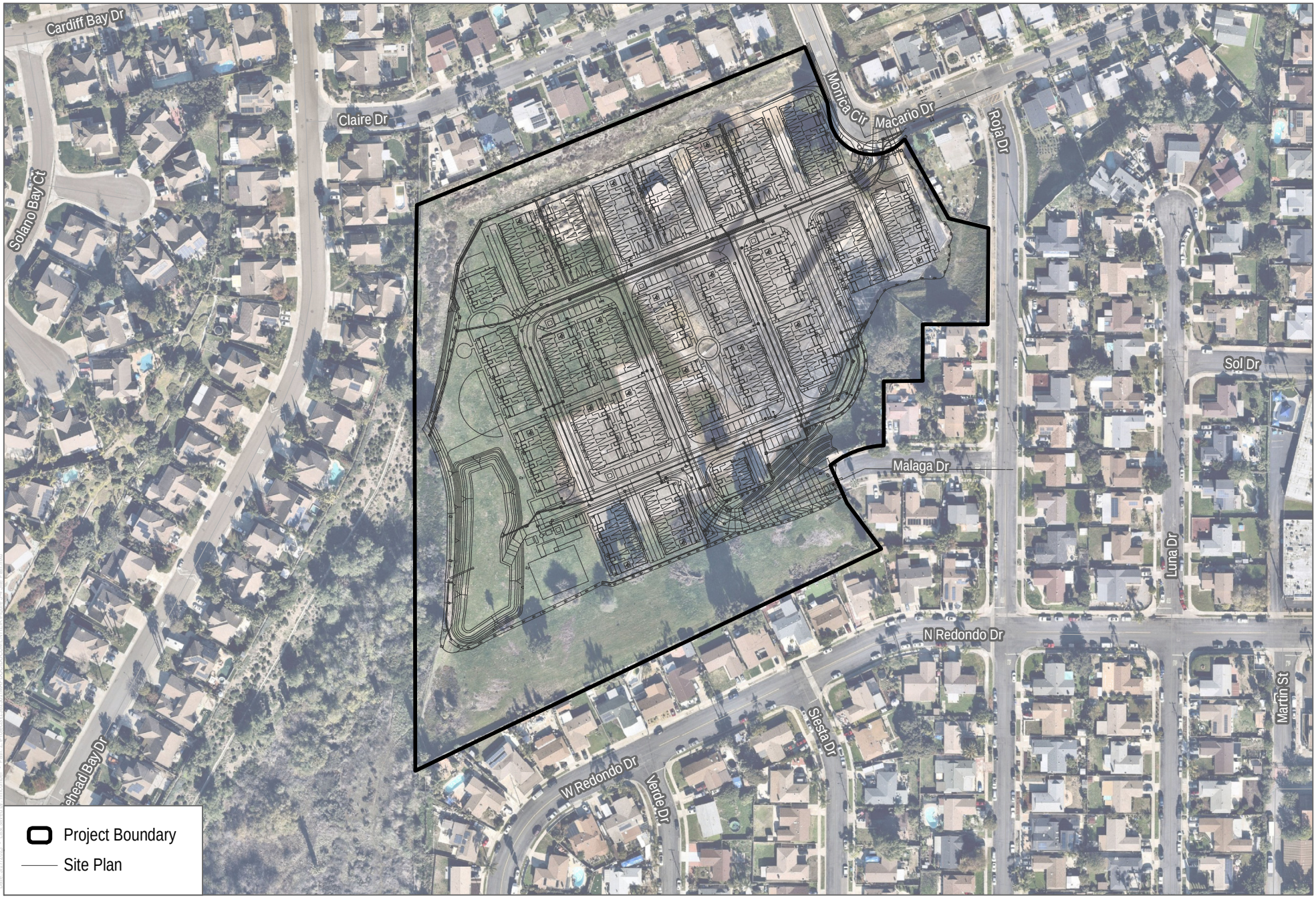

SOURCE: SANGIS 2019; Open Street Maps 2022

DUDEK

0 100 200 Feet

FIGURE 3-4

Site Plan

Pacifica Project EIR

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1.3.3 A-Weighted Sound Level

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness, or human response, is determined by the characteristics of the human ear.

Human hearing is limited not only in the range of audible frequencies, but also in the way it perceives the sound in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 and 5,000 hertz, and it perceives a sound within that range as more intense than a sound of higher or lower frequency with the same magnitude. To approximate the frequency response of the human ear, a series of sound level adjustments is usually applied to the sound measured by a sound level meter. The adjustments (referred to as a weighting network) are frequency-dependent.

The A-scale weighting network approximates the frequency response of the average young ear when listening to ordinary sounds. When people make judgments about the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special situations (e.g., B-scale, C-scale, D-scale), but these scales are rarely used in conjunction with most environmental noise. Noise levels are typically reported in terms of A-weighted sound levels. All sound levels discussed in this report are A-weighted decibels (dBA). Examples of typical noise levels for common indoor and outdoor activities are depicted in Table 1.

Table 1. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dB)	Common Indoor Activities
—	110	Rock band
Jet fly over at 300 meters (1,000 feet)	100	—
Gas lawn mower at 1 meter (3 feet)	90	—
Diesel truck at 15 meters (50 feet), at 80 kilometers per hour (50 miles per hour)	80	Food blender at 1 meter (3 feet); garbage disposal at 1 meter (3 feet)
Noisy urban area, daytime; gas lawn mower at 30 meters (100 feet)	70	Vacuum cleaner at 3 meters (10 feet)
Commercial area; heavy traffic at 90 meters (300 feet)	60	Normal speech at 1 meter (3 feet)
Quiet urban, daytime	50	Large business office; dishwasher next room
Quiet urban, nighttime	40	Theater; large conference room (background)
Quiet suburban, nighttime	30	Library
Quiet rural, nighttime	20	Bedroom at night; concert hall (background)
—	10	Broadcast/Recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing

Source: Caltrans 2013.

1.3.4 Human Response to Changes in Noise Levels

Under controlled conditions in an acoustics laboratory, the trained, healthy human ear is able to discern changes in sound levels of 1 dBA when exposed to steady, single-frequency signals in the mid-frequency range. A change of 5 dBA is readily perceptible, and a change of 10 dBA is *perceived* as twice (if a gain) or half (if a loss) as loud. A doubling of sound energy results in a 3-dBA increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a road) would result in a barely perceptible change in sound level.

1.3.5 Noise Descriptors

Units of measure have been developed to evaluate the long-term characteristics of sound. The energy-equivalent sound level (L_{eq}) is also referred to as the time-average sound level. It is the equivalent steady-state or constant sound level that in a stated period of time would contain the same acoustical energy as the time-varying sound level during the same time period. For instance, the 1-hour A-weighted equivalent sound level, $L_{eq}(h)$, is the energy average of the A-weighted sound levels occurring during a 1-hour period, and is the basis for most of the County Noise Ordinance standards.

People are generally more sensitive to and thus potentially more annoyed by noise occurring during the evening and nighttime hours. Hence, another noise descriptor used in community noise assessments—the community noise equivalent level (CNEL)—represents a time-weighted, 24-hour average noise level based on the A-weighted sound level. However, unlike an unmodified 24 hour L_{eq} value, the CNEL descriptor accounts for increased noise sensitivity during the evening (7 p.m. to 10 p.m.) and nighttime (10 p.m. to 7 a.m.) by adding 5 dBA and 10 dBA, respectively, to the average sound levels occurring during these defined hours within a 24-hour period.

1.3.6 Sound Propagation

Sound propagation (i.e., the traverse of sound from a noise emission source position to a receiver location) is influenced by multiple factors that include geometric spreading, ground absorption, atmospheric effects, and occlusion by natural terrain and/or features of the built environment.

Sound levels attenuate (or diminish) geometrically at a rate of approximately 6 dBA per doubling of distance from an outdoor point-type source due to the spherical spreading of sound energy with increasing distance travelled. The effects of atmospheric conditions such as humidity, temperature, and wind gradients are typically distance-dependent and can also temporarily either increase or decrease sound levels measured or perceived at a receptor location. In general, the greater the distance the receiver is from the source of sound emission, the greater the potential for variation in sound levels at the receptor due to these atmospheric effects. Additional attenuation can result from sound path occlusion and diffraction due to intervention of natural (ridgelines, dense forests, etc.) and built features (such as solid walls, buildings and other structures).

1.3.7 Groundborne Vibration Fundamentals

Groundborne vibration is fluctuating or oscillatory motion transmitted through the ground mass (i.e., soils, clays, and rock strata). The strength of groundborne vibration attenuates rapidly over distance. Some soil types transmit vibration quite efficiently; other types (primarily sandy soils) do not. Several basic measurement units are commonly used to describe the intensity of ground vibration. The descriptors used by the Federal Transit Administration (FTA) are peak particle velocity (PPV), in units of inches per second (ips), and velocity decibel (VdB) that is based on a root-mean square (RMS) of the vibration signal magnitude. The calculation to determine PPV at a given distance is as follows:

$$PPV_{distance} = PPV_{ref}*(25/D)^{1.5}$$

where:

$PPV_{distance}$ = the peak particle velocity in inches per second of the equipment adjusted for distance

PPV_{ref} = the reference vibration level in inches per second at 25 feet

D = the distance from the equipment to the receiver

Conversion of PPV to rms VdB involves application of a reference vibration velocity level (also in units of ips) and a "crest factor" of 4 per FTA guidance, which is expressed as follows:

$$VdB = 20*LOG(PPV/(4*0.000001))$$

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2 Regulatory Setting

2.1 Federal

In its Transit Noise and Vibration Impact Assessment guidance manual, the Federal Transit Administration (FTA) recommends a daytime construction noise level threshold of 80 dBA L_{eq} over an 8-hour period (FTA 2018) when detailed construction noise assessments are performed to evaluate potential impacts to community residences surrounding a project. Although this FTA guidance is not a regulation, it can serve as a quantified standard in the absence of such noise limits at the state and local jurisdictional levels.

2.2 State

2.2.1 California Code of Regulations, Title 24

Title 24 of the California Code of Regulations sets standards that new development in California must meet. According to Title 24, interior noise levels are not to exceed 45 dBA CNEL in any habitable room (ICC 2019).

2.2.2 California Department of Health Services Guidelines

The California Department of Health Services has developed guidelines of community noise acceptability for use by local agencies (OPR 2017). Selected relevant levels are listed here:

- Below 60 dBA CNEL: normally acceptable for low-density residential use
- 50 to 70 dBA: conditionally acceptable for low-density residential use
- Below 65 dBA CNEL: normally acceptable for high-density residential use and transient lodging
- 60 to 70 dBA CNEL: conditionally acceptable for high-density residential, transient lodging, churches, educational, and medical facilities

The normally acceptable exterior noise level for high-density residential use is up to 65 dBA CNEL. Conditionally acceptable exterior noise levels range up to 70 dBA CNEL for high-density residential use.

2.2.3 California Department of Transportation

In its Transportation and Construction Vibration Guidance Manual (Caltrans 2013b), the California Department of Transportation (Caltrans) recommends 0.5 ips PPV as a threshold for the avoidance of structural damage to typical newer residential buildings exposed to continuous or frequent intermittent sources of groundborne vibration. For transient vibration events, such as blasting, the damage risk threshold would be 1.0 ips PPV (Caltrans 2013b) at the same type of newer residential structures. For older structures, these guidance thresholds would be more stringent: 0.3 ips PPV for continuous/intermittent vibration sources, and 0.5 ips PPV for transient vibration events. With respect to human annoyance, Caltrans guidance indicates that building occupants exposed to continuous groundborne vibration at 0.2 ips PPV would find it “annoying” and thus a likely significant impact. Although these Caltrans guidance thresholds are not regulations, they can serve as quantified standards in the absence of such limits at the local jurisdictional level.

2.3 Local

2.3.1 City of Oceanside Noise Level Compatibility Standards

The Noise Element of the City's General Plan (City of Oceanside 1974) establishes target maximum noise levels in the City. The Noise Element provides the following limitations on construction noise:

1. It should be unlawful for any person within any residential zone of 500 feet there from to operate any pile driver, power shovel, pneumatic, power hoist, or other construction equipment between 8:00 p.m. and 7:00 a.m. generating an ambient noise levels of 50 dBA at any property line unless an emergency exists.
2. It should be unlawful for any person to operate any construction equipment at a level in excess of 85 dBA at 100 feet from the source.
3. It should be unlawful for any person to engage in construction activities between 6:00 p.m. and 7:00 a.m. when such activities exceed the ambient noise level by 5 dBA. A special permit may be granted by the Director of Public Works if extenuating circumstances exist.

In addition, the Noise Element addresses nuisance noise and states that it should be unlawful for any person to make or continue any loud, unnecessary noise that causes annoyance to any reasonable person of normal sensitivity.

2.3.1 Transportation-Related Noise Standards

The City's Noise Element establishes a policy for exterior sensitive areas to be protected from high noise levels. The Noise Element sets 65 dBA CNEL for the outdoor areas and interior noise levels of less than 45 dBA CNEL as the "normally acceptable" level.

For interior noise, the Noise Element also establishes 45 dBA CNEL as the maximum acceptable level for habitable rooms when exterior noise levels are 60 dBA CNEL or more. If windows and doors are required to be closed to meet this standard, then mechanical ventilation (i.e., air conditioning) shall be included in the project design.

2.3.1 Noise Element Policies

- Noise levels shall not be so loud as to cause danger to public health in all zones except manufacturing zones where noise levels may be greater.
- Noise shall be controlled at the source where possible.
- Noise shall be intercepted by barriers or dissipated by space where other controls fail or are impractical.
- Noise levels shall be considered in any change to the Land Use and Circulation Elements of the General Plan.
- Noise levels of City vehicles, construction equipment, and garbage trucks shall be reduced to acceptable levels.

City of Oceanside Noise Ordinance

Chapter 38 of the Oceanside Municipal Code governs operational noise and contains the maximum one-hour average sound levels for various land uses for operational noise (Table 2) generated by sources within or affecting each land use zone. The Noise Ordinance sets an allowed level for single-family and medium-density residential areas to 50 dBA L_{eq} from 7:00 a.m. to 9:59 p.m., and 45 dBA L_{eq} from 10:00 p.m. to 6:59 a.m. High density

residential areas are limited to 55 dBA L_{eq} from 7:00 a.m. to 9:59 p.m. and 50 dBA L_{eq} form 10:00 p.m. to 6:59 a.m. In commercial zones, noise generation is limited to 65 dBA L_{eq} from 7:00 a.m. to 9:59 p.m. and 60 dBA L_{eq} form 10:00 p.m. to 6:59 a.m. Where two land use zones abut one another, the more restrictive noise limit is enforced along the common boundary between the two land uses.

Table 2. City of Oceanside Exterior Noise Standards

Zone	Applicable Limit (decibels)	Time Period
Residential Estate, Single-Family Residential, Medium Density Residential, Agricultural, Open Space	50 45	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.
High Density, Residential Tourist	55 50	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.
Commercial	65 60	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.
Industrial	70 65	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.
Downtown	65 55	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.

Source: Oceanside Municipal Code, Section 38.12.

Construction activities are subject to Section 38.17 of the Noise Ordinance, which specifically prohibits the operation of any pneumatic or air hammer, pile driver, steam shovel, derrick, steam, or electric hoist, parking lot cleaning equipment or other appliance, the use of which is attended by loud or unusual noise, between the hours of 10:00 p.m. and 7:00 a.m.

Section 38.16 prohibits nuisance noise as recommended in the General Plan Noise Element. It is unlawful for any person to make, continue or cause to be made or continued, within the limits of the City of Oceanside, any disturbing, excessive, or offensive noise that causes discomfort or annoyance to reasonable persons of normal sensitivity.

City of Oceanside Engineering Manual

Construction noise in Oceanside is governed by the City Engineering Manual. Construction is normally limited to the hours between 7:00 a.m. and 6:00 p.m., Monday through Friday. However, Saturday construction is allowed by permit. More specifically, the City Engineering Manual (Engineers Design and Processing Manual Appendix Construction Guidelines and Requirements) states the following on pages 139 and 159:

- All operations conducted on the premises, including the warming up, repair, arrival, departure, or running of trucks, earthmoving equipment, construction equipment, and any other associated equipment shall be limited to the period between 7:00 a.m. and 6:00 p.m. each day, Monday through Friday, and no earthmoving or grading operations shall be conducted on the premises on Saturdays, Sundays or legal holidays, unless waived by the City Engineer.

- Hours of Operation (515)(34): 7:00 am to 6:00 p.m. M-F; including equipment warm-up.

Saturday Operation: Requires filing a permit by 2:30 p.m. on the preceding Thursday.

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3 Existing Conditions

Sound pressure level (SPL) measurements were conducted near the project site on September 12, 2022, to quantify and characterize the existing outdoor ambient noise levels. Table 3 provides the location, date, and time at which these baseline noise level measurements were taken. The SPL measurements were performed by an attending Dudek field investigator using a Rion NL-52 sound level meter equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The sound level meter meets the current American National Standards Institute standard for a Type 1 (Precision Grade) sound level meter (SLM). The accuracy of the SLM was verified using a reference sound signal (i.e., field calibrator) before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

Two short-term noise level measurement locations (ST1–ST2) that represent the vicinities of existing sensitive receivers were selected on and near the project site. These locations are depicted as receivers ST1–ST2 on Figure 3, Noise Measurement and Modeled Receptor Locations. The L_{eq} and L_{max} noise levels are provided in Table 3. The primary noise sources at the sites identified in Table 3 consisted of traffic along adjacent roadways, distant aircraft, and birdsong. As shown in Table 3, the measured sound levels ranged from approximately 45.2 dBA L_{eq} at ST1 to 41.4 dBA L_{eq} at ST2. Noise measurement data is also included in Appendix A, Baseline Noise Measurement Field Data. These samples of daytime L_{eq} measured at the two representative receptor positions in Table 3 can be interpreted as approximations of CNEL, since evening SPL would likely be 5 dBA less, and nighttime SPL would be 10 dBA less than the daytime values according to FTA outdoor ambient sound level estimation techniques when a receptor is proximate to a major roadway or railroad (FTA 2018).

Table 3. Measured Baseline Outdoor Ambient Noise Levels

Site	Location/Address	Date/Time	L_{eq} (dBA)	L_{max} (dBA)
ST1	Northeastern entrance to existing project site	2022-09-12, 11:30 AM to 11:45 AM	45.2	54
ST2	Western cul-de-sac of Malaga Drive	2022-09-12, 11:55 AM to 12:10 PM	41.4	51.7

Source: Appendix A.
Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); L_{max} = maximum sound level during the measurement interval; dBA = A-weighted decibels; ST = short-term noise measurement locations.

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SOURCE: SANGIS 2029, Open Streets Map 2019, Dudek 2022

DUDEK

0 90 180 Feet

FIGURE 3

Noise Measurement Locations

Pacifica Elementary Housing Development Project

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4 Thresholds of Significance

The following significance criteria are based on Appendix G of the California Environmental Quality Act Guidelines (14 CCR 15000 et seq.) and will be used to determine the significance of potential noise and vibration impacts. Impacts associated with noise and vibration would be significant if the proposed project would result in:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- Generation of excessive groundborne vibration or groundborne noise levels.
- Expose people residing or working in the project area to excessive noise levels (for a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within 2 miles of a public airport or public use airport).

In light of these above significance criteria, this analysis uses the following standards to evaluate potential noise and vibration impacts.

- Construction noise – Although Chapter 38 of the Oceanside Municipal Code does not quantify a threshold for allowable construction noise, the City's General Plan allows noise from construction equipment operation to be as high as 85 dBA at 100 feet from the source. Applying the principles of sound propagation for a point-type source, this level could be interpreted to mean 91 dBA at 50 feet, which is greater than the maximum sound levels of most operating heavy construction equipment (DOT 2006) and would thus imply all but the loudest construction activities (e.g., pile driving) could be compliant with this standard. However, the apparent proximity of existing residential receptors to the north of the proposed project site suggests that source-to-receiver distances could be as short as 70 feet. Additionally, most construction equipment and vehicles on a project site do not operate continuously. Therefore, consistent with the FTA guidance mentioned in Section 2, Regulatory Setting, this analysis will use 80 dBA L_{eq} over an 8-hour period as the construction noise impact criterion during daytime hours (7:00 a.m. to 6:00 p.m.). If construction work were to occur outside these hours, the impact threshold would align with the City's General Plan requirement during such hours: no more than a 5 dBA increase over existing ambient noise levels.
- Off-site project-attributed transportation noise – For purposes for this analysis, a direct roadway noise impact would be considered significant if increases in roadway traffic noise levels attributed to the proposed project were greater than 3 dBA CNEL at an existing noise-sensitive land use.

- Off-site project-attributed stationary noise – For purposes for this analysis, a noise impact would be considered significant if noise from typical operation of heating, ventilation, and air conditioning and other electro-mechanical systems associated with the proposed project exceeded 50 dBA hourly L_{eq} at the property line from 7:00 a.m. to 9:59 p.m., and 45 dBA hourly L_{eq} from 10:00 p.m. to 6:59 a.m. Note that these are the City's thresholds for the residential zones that characterize the proposed project site and its adjoining lands north and south.
- Construction vibration – Guidance from Caltrans indicates that a vibration velocity level of 0.2 ips PPV received at a structure would be considered annoying by occupants within (Caltrans 2013b). As for the receiving structure itself, aforementioned Caltrans guidance from Section 2 recommends that a vibration level of 0.3 ips PPV would represent the threshold for building damage risk to an older residential structure.

For purposes of disclosure, since current CEQA noise criteria listed above do not consider it, this analysis also evaluates compatibility of on-site noise exposure levels (e.g., from roadway traffic) with the City of Oceanside exterior and interior noise standards of 65 dBA CNEL and 45 dBA CNEL, respectively.

5 Impact Discussion

Potential noise and vibration impacts attributed to project construction and operation are studied in the following subsections that are categorized by the CEQA Guidelines Appendix G significance for noise.

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Short-Term Construction

Construction noise and vibration are temporary phenomena, with emission levels varying from hour to hour and day to day, depending on the equipment in use, the operations performed, and the distance between the source and receptor. Equipment that would be in use during construction would include, in part, graders, backhoes, rubber-tired dozers, loaders, cranes, forklifts, pavers, rollers, and air compressors. The typical maximum noise levels at a distance of 50 feet from various pieces of construction equipment and activities anticipated for use on the proposed project site are presented in Table 4. Note that the equipment noise levels presented in Table 4 are maximum noise levels. Usually, construction equipment operates in alternating cycles of full power and low power, producing average noise levels over time that are less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time.

Table 4 Typical Construction Equipment Maximum Noise Levels

Equipment Type	Typical Equipment (L_{max}, dBA at 50 Feet)
All Other Equipment > 5 HP	85
Backhoe	78
Compressor (air)	78
Concrete Saw	90
Crane	81
Dozer	82
Excavator	81
Flat Bed Truck	74
Front End Loader	79
Generator	72
Grader	85
Man Lift	75
Paver	77
Roller	80
Scraper	84
Welder / Torch	73

Source: DOT 2006.
Note: L_{max} = maximum sound level; dBA = A-weighted decibels.

Aggregate noise emission from proposed project construction activities, broken down by sequential phase, was predicted at two evaluation distances to the nearest existing noise-sensitive receptor: 1) from the nearest position of the construction site boundary and 2) from the geographic center of the construction site, which serves as the time-averaged location or geographic *acoustical centroid* of active construction equipment for the phase under study. The intent of the former distance is to help evaluate anticipated construction noise from a limited quantity of equipment or vehicle activity expected to be at the boundary for some period of time, which would be most appropriate for phases such as site preparation, grading, and paving. The latter distance is used in a manner similar to the general assessment technique as described in the FTA guidance for construction noise assessment, when the location of individual equipment for a given construction phase is uncertain over some extent of (or the entirety of) the construction site area. In this studied scenario, because of the equipment location uncertainty, all the equipment for a construction phase is assumed to operate—on average—from the acoustical centroid position. Table 5 summarizes these two distances to the apparent closest noise-sensitive receptor for each of the nine sequential construction phases. At the site boundary, this analysis assumes that up to only one piece of equipment (conservatively, the loudest) of each listed type per phase will be involved in the construction activity for up to the full 8-hour period at this closest distance to the receptor. In other words, at such proximity, the operating equipment cannot "stack" or crowd the vicinity and still operate. For the acoustical centroid case, which intends to be a geographic average position for all equipment during the indicated phase, this analysis assumes that the equipment may be operating up to all 8 hours per day.

This RCNM emulator includes consideration of equipment source elevation and receptor elevations with respect to local grade, and thus captures potential sound path occlusion due to topography and man made barriers.

Table 5. Estimated Distances between Construction Activities and the Nearest Noise-sensitive Receptor

Construction Phase (and Equipment Types Involved)	Distance from Nearest Noise-Sensitive Receptor to Construction Site Boundary (Feet)	Distance from Nearest Noise-Sensitive Receptor to Acoustical Centroid of Site (Feet)
Phase 1		
Demolition (concrete saw/industrial saw, dozer, excavator)	74	240
Site preparation (dozer, tractor, front end loader, backhoe)	74	240
Grading (excavator, grader, scraper, track dozer, tractor, front end loader, backhoe)	74	240
Utilities Installation (excavator, backhoe)	240	240
Paving (paver, roller)	70	240
Phase 2		
Building construction (forklift, generator, tractor, front end loader, backhoe)	70	240
Architectural coating (air compressor)	70	240

Phase 3		
Building construction (forklift, generator, tractor, front end loader, backhoe)	70	240
Architectural coating (air compressor)	70	0

A Microsoft Excel–based noise prediction model emulating and using reference data from the Federal Highway Administration Roadway Construction Noise Model (RCNM) (FHWA 2008) was used to estimate construction noise levels at the nearest occupied noise-sensitive land use. (Although the RCNM was funded and promulgated by the Federal Highway Administration, it is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are often used for other types of construction.) Input variables for the predictive modeling consist of the equipment type and number of each (e.g., two graders, a loader, a tractor), the duty cycle for each piece of equipment (e.g., percentage of time within a specific time period, such as an hour, when the equipment is expected to operate at full power or capacity and thus make noise at a level comparable to what is presented in Table 4), and the distance from the noise-sensitive receiver. The predictive model also considers how many hours that equipment may be on site and operating (or idling) within an established work shift. Conservatively, no topographical or structural shielding was assumed in the modeling. The RCNM has default duty-cycle values for the various pieces of equipment, which were derived from an extensive study of typical construction activity patterns. Those default duty-cycle values were used for this noise analysis, which is detailed in Appendix B, Construction Noise Modeling Input and Output, and produce the predicted results displayed in Table 6.

Table 6. Estimated Distances between Construction Activities and the Nearest Noise-sensitive Receptor

Construction Phase	8-Hour L_{eq} at Nearest Noise-Sensitive Receptor to Construction Site Boundary (dBA)	8-Hour L_{eq} at Nearest Noise-Sensitive Receptor to Acoustical Centroid of Site (dBA)
Phase 1		
Demolition (concrete saw/industrial saw, dozer, excavator)	80	69
Site preparation (dozer, tractor, front end loader, backhoe)	75	67
Grading (excavator, grader, scraper, track dozer, tractor, front end loader, backhoe)	80	70
Utilities Installation (excavator, backhoe)	64	64
Paving (paver, roller)	76	62
Phase 2		
Building construction (forklift, generator, tractor, front end loader, backhoe)	75	59
Architectural coating (air compressor)	75	60

Phase 3		
Building construction (forklift, generator, tractor, front end loader, backhoe)	75	59
Architectural coating (air compressor)	75	60

Notes: L_{eq} = equivalent noise level; dBA = A-weighted decibels. *italicized equipment types are the loudest and used singularly to evaluate noise for the "nearest" assessment scenario.

As presented in Table 6, the estimated construction noise levels are predicted to be nearly as high as 80 dBA L_{eq} over an 8-hour period at the nearest occupied property (as close as 74 feet away) when grading activities take place near the northern project boundaries. Note that these estimated noise levels at a source-to-receiver distance of 74 feet are conservatively high, in that they presume the noted pieces of heavy equipment would each operate, on average at this distance, for a cumulative period of eight hours a day. The reality of construction progress on-site would likely be different. By way of example, a grader might make multiple passes on site that are this close to a receiving occupied property; but, for the remaining time during the day, the grader may be sufficiently farther away and either performing work at a more distant location or simply not operating. Short-term construction noise remains in compliance with the FTA guidance of 80 dBA L_{eq} over an 8-hour period, and therefore is less than significant.

Long-Term Operational

Off-Site Traffic Noise Exposure

The proposed project would result in the creation of additional vehicle trips on local arterial roadways (i.e. Monica Circle, Macario Drive, and Roja Drive), which could result in increased traffic noise levels at adjacent noise-sensitive land uses. Appendix C, Traffic Noise Modeling Input and Output, contains a spreadsheet with traffic volume data (average daily traffic) for Monica Circle. In particular, the proposed project would create additional traffic along Melrose Drive, which according to the Traffic Impact Assessment prepared for the proposed project (CR Associates, 2022) would add 1,312 total average daily trips to adjacent to the project site.

Potential noise effects from vehicular traffic were assessed using the Federal Highway Administration's Traffic Noise Model version 2.5 (FHWA 2004). Information used in the model included the roadway geometry, existing (year 2022), and existing plus project traffic volumes and posted traffic speeds. Noise levels were modeled at representative noise-sensitive receivers ST1 and ST2, as shown in Figure 3. The receivers were modeled to be 5 feet above the local ground elevation. The noise model results are summarized in Table 7. Based on results of the model, implementation of the proposed project would not result in readily perceptible increases in traffic noise.

Table 7. Roadway Traffic Noise Modeling Results

Modeled Receiver No.	Existing (2022) Noise Level	Existing with Project Noise Level	Near-term (2025) Noise Level	Near-term (2025) with Project Noise Level	Horizon (2050) Noise Level	Horizon with Project Noise Level	Maximum Project-Related Noise Level Increase
	(dBA CNEL)	(dBA CNEL)	(dBA CNEL)	(dBA CNEL)	(dBA CNEL)	(dBA CNEL)	(dB)
ST1	53	54	53	54	54	55	1
ST2	46	47	46	47	46	47	1

Source: Appendix C.
Notes: dBA = A-weighted decibel; CNEL = community noise equivalent level; dB = decibel.

Table 7 shows that at both listed representative receivers, the addition of proposed project traffic to the roadway network would result in an increase in the CNEL of less than 3 dB, which is below the discernible level of change for the average healthy human ear. Thus, a less-than-significant impact is expected for proposed project-related off-site traffic noise increases affecting existing residences in the vicinity.

On-site Traffic Interior Noise Exposure

Aside from exposure to aviation traffic noise, current CEQA noise-related guidelines at the state level do not require an assessment of exterior-to-interior noise intrusion, environmental noise exposure to occupants of newly-created project residences, or environmental noise exposure to exterior non-residential uses attributed to the development of the proposed project. Nevertheless, the City's General Plan and the California Building Code requires that interior background noise levels not exceed a CNEL of 45 dB within habitable rooms. Hence, the following predictive analysis of traffic noise exposure at the exteriors of occupied residences and outdoor living areas is provided below.

In addition to the prediction results presented in Table 7, the FHWA TNM software was also used to predict the existing-with-project scenario traffic noise levels at multiple on-site exterior areas, as listed in Table 8. These on-site modeled receptor locations, which appear in Appendix C, include representative positions for the exteriors of multiple floors and positions of five of the proposed project building facades. Predicted exterior sound levels that are higher than 60 dBA CNEL indicate locations where an exterior-to-interior noise analysis should be performed for the proximate occupied residential unit. According to Table 8, there are no modeled receptors that exceed 60 dBA CNEL, therefore additional exterior-to interior noise analysis is not needed. Individual Modeling locations appear in Figure 3 and Appendix C.

Table 8. Future Ambient Noise Levels at Residential Facades

Modeled Receptor	Noise Level (A-weighted CNEL)		
	1st Floor	2nd Floor	3rd Floor
M1	52.7	54.2	54.1
M2	50.7	51.7	51.5
M3	48.6	49.5	49.8
M4	50	51.5	51.8
M5	48.3	51.2	51.7
OS-1	42.4		

Dog Park	38.8

Typically, with the windows open, building shells provide approximately 15 dB (i.e., an average of 12-18 dB [OPR 2017]) of exterior-to-interior noise reduction; while with windows closed residential construction generally provides a minimum of 25 dB attenuation (FHWA 2011). Therefore, rooms exposed to an exterior CNEL not greater than 60 dB would result in an interior background CNEL of 45 dB or less, even with open fenestration. In other words, the arithmetic difference of an exterior noise level less than 60 dBA CNEL and an exposed building façade that provides 15 dB of sound insulation results in an interior background sound level less than 45 dBA CNEL. Table 8 shows that none of the residential rooms modeled will be exposed to a CNEL of above 60 dB and thus interior background noise levels will not exceed a CNEL of 45 dB within habitable rooms.

Onsite Open Spaces

As analyzed herein and with prediction results presented in Table 8, shared outdoor project spaces such as "OS-1" and "Dog Park" are expected to experience noise levels that are compliant with the City's General Plan Noise Element guidance of 65 dBA CNEL for "parks" and "playgrounds".

Stationary Noise Sources

The incorporation of new multi-family homes and a mix of open space uses attributed to development of the proposed project will add a variety of noise-producing electro-mechanical equipment that include those presented and discussed in the following paragraphs. Most of these noise-producing equipment or sound sources would be considered stationary, or limited in mobility to a defined area. Using a Microsoft Excel–based outdoor sound propagation prediction model, project-attributed operational noise at nearby community receptors was predicted using several assumptions:

- Treatment of exposed at-grade air-cooled condensing units as point-type sound emission sources; and,
- Point-source sound propagation (i.e., 6 dB per doubling of distance) that conservatively ignores acoustical absorption from atmospheric and ground surface effects.

Please see Appendix E for quantitative details of the inputs and outputs that form the basis of the following assessment presentations.

Night-time Residential Unit Heating, Ventilation, and Air Conditioning Noise

For purposes of this analysis, each of the new occupied residential units would be expected to feature a split-system type air-conditioning unit, with an air-cooled refrigeration (3-ton capacity) condenser unit. Assuming each condenser unit has an SPL of 68 dBA at 3 feet based on available data from a likely manufacturer (Carrier 2012), and the units would generally be installed at grade near the apparent "front porch" areas. Therefore, the closest existing noise-sensitive residential receptor to the north of the proposed project's northern unit would be as close as 105 horizontal feet to the nearest of these condenser units. The predicted sound emission level from the combination of all operating condenser units as received by this offsite single-family home would be 45 dBA L_{eq} and thus be compliant with the City's nighttime

threshold of 45 dBA hourly L_{eq}. Under such conditions, the operation of residential air-conditioning units would result in a **less-than-significant noise impact**.

Pickleball noise and Daytime HVAC

In addition to noise from onsite HVAC units discussed in the preceding paragraph, during the daytime hours there is a potential for onsite pickleball activities near the southern boundary of the project (as shown in the Figure 2). For purposes of this analysis, each pickleball court will have players making intermittent paddle-to-pickleball contact for which a measured one-second reference noise level of 77.4 dBA L_{eq} at 1 meter would apply (Dudek 2020). The closest existing noise-sensitive residential receptor to the south of the proposed project's pickleball courts would be as close as 200 horizontal feet away. The predicted sound emission level from the combination of all operating condenser units and pickleball activity as received by this offsite single-family home would be 45 dBA L_{eq} and thus be compliant with the City's daytime threshold of 50 dBA hourly L_{eq}. Under such conditions, the concurrence of pickleball noise and operation of daytime residential air-conditioning units would result in a **less-than-significant noise impact**.

Emergency Generator

The proposed project also features a backup generator that will be installed on ground level north of the pickleball courts. Noise emission from regular testing at an expected frequency of up to one half-hour test per month during daytime hours would need to comply with the City's established noise limit at the property line: 50 dBA hourly L_{eq}.

For Purposes of this analysis, the generator is using a reference noise level of 69 dBA L_{eq} at 50 feet (FHWA, 2008). The closest existing noise-sensitive residential receptor to the south of the proposed project's emergency generator would be as close as 260 horizontal feet away. The predicted sound emission level from the combination of all operating condenser units, pickleball noise, and emergency generator operation as received by this offsite single-family home would be 50 dBA L_{eq} and thus be compliant with the City's daytime threshold of 50 dBA hourly L_{eq}. Under such conditions, the operation of all stationary equipment and activities would result in a **less-than-significant noise impact**.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction activities may expose persons to excessive groundborne vibration, causing a potentially significant impact. Caltrans has collected groundborne vibration information related to construction activities (Caltrans 2013b). Information from Caltrans indicates that continuous vibrations with a PPV of approximately 0.2 ips is considered "annoying." For context, heavier pieces of construction equipment, such as a bulldozer that may be expected on the project site, have peak particle velocities of approximately 0.089 ips or less at a reference distance of 25 feet (DOT 2006).

Groundborne vibration attenuates rapidly—even over short distances. And when groundborne vibration encounters a building foundation, a coupling loss occurs depending on its mass and design. For typical wood-framed houses, like those near the proposed project, this coupling loss is expected to be 5 vibration velocity decibels (VdB) according to FTA guidance (FTA 2006).

The attenuation of groundborne vibration as it propagates from source to receptor through intervening soils and rock strata can be estimated with expressions found in FTA and Caltrans guidance. By way of example, for a bulldozer operating onsite and as close as the northern project boundary (that is 70 feet from the nearest receiving sensitive land use) the estimated groundborne vibration velocity level would be 0.028 ips as received by the residential structure, and would be compliant with the 0.3 ips PPV threshold per Caltrans guidance with respect to building damage risk. Therefore, vibration-induced annoyance to occupants of nearby existing homes would be considered less than significant.

Once operational, the proposed project would not be expected to feature major producers of groundborne vibration. Anticipated mechanical systems like heating, ventilation, and air-conditioning units are designed and manufactured to feature rotating (fans, motors) and reciprocating (compressors) components that are well-balanced with isolated vibration within or external to the equipment casings. On this basis, vibration due to proposed project operation should be **less than significant**.

C) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

There are no private airstrips within the vicinity of the project site. The closest airport to the project site is the Oceanside Municipal Airport, approximately 3.5 miles northeast of the site. According to the Airport Land Use Compatibility Plan Exhibit IV-10, Compatibility Data Map: Noise, the project site is not located within a noise exposure of 60 dB CNEL and would therefore not expose people residing or working in the project area to excessive noise levels (San Diego County Regional Airport Authority 2010). Impacts from aviation overflight noise exposure would be **less than significant**.

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6 Summary of Findings

This noise report was conducted for the proposed project. The predicted analysis results indicate that potential impacts during construction would be less than significant. Noise impacts due to operation of the proposed project (including traffic noise) would be less than significant. No noise or vibration mitigation is required.

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Appendix A
Baseline Noise Measurement Field Data

FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1465

Project Name	*Pacifica*
Observer(s)	*Connor Burke*
Date	*2022-09-12*

Monitoring

Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*33.257004, -117.303193*
Begin (Time)	*11:30:00*
End (Time)	*11:45:00*
Leq	*45.2*
Lmax	*54*
Lmin	*33.4*
Other Lx?	*L90, L50, L10*
L90	*35.3*
L50	*42.9*
L10	*48.20*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	

Monitoring	
Record #	*2*
Site ID	*ST2*
Site Location Lat/Long	*33.255655, -117.303137*
Begin (Time)	*11:55:00*
End (Time)	*12:10:00*
Leq	*41.4*
Lmax	*51.7*
Lmin	*36.1*
Other Lx?	*L90, L50, L10*
L90	*37.7*
L50	*40*
L10	*42.7*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Birds*
Other Noise Sources (Background)	*Birds, Distant Dog Barking, Distant Gardener / Landscape Noise, Distant Kids Playing, Distant Traffic*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	

Appendix B
Construction Noise Modeling Input and Output

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	ILbarr (dB)	Notes
Phase 1																									
Demolition	concrete saw	1	20	90		74	0.0		85.8	6	360	78	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	excavator	1	40	81		74	0.0		76.8	6	360	72	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	dozer	1	40	82		74	0.0		77.8	6	360	73	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
									Total for Demolition Phase:			79.5													
Site Prep	dozer	1	40	82		74	0.0		77.8	8	480	74	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	backhoe	1	40	78		74	0.0		73.8	8	480	70	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
												75.3													
Grading	excavator	1	40	81		74	0.0		76.8	6	360	72	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	grader	1	40	85		74	0.0		80.8	6	360	76	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	dozer	1	40	82		74	0.0		77.8	6	360	73	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	scraper	1	40	84		74	0.0		79.8	6	360	75	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
	backhoe	1	40	78		74	0.0		73.8	6	360	69	5	35	30	70	4	74	74.3	6.4	79.8	0.00	0.1	0.0	
									Total for Grading Phase:			80.2													
Utility Installation	excavator	2	40	81		240	0.0		63.2	8	480	62	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	Backhoe	2	40	78		240	0.0		60.2	8	480	59	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
												64.0													
Paving	paver	2	50	77		70	0.0		73.6	8	480	74	5	35	30	65	5	70	69.6	7.1	76.2	0.00	0.1	0.0	
	roller	2	20	80		70	0.0		76.6	8	480	73	5	35	30	65	5	70	69.6	7.1	76.2	0.00	0.1	0.0	
									Total for Paving Phase:			76.2													
Phase 2																									
Building Construction	crane	0	16	81		70	0.0		77.6	8	480	0	5	35	30	65	5	70	69.6	7.1	76.2	0.00	0.1	0.0	
	Man lift	1	20	75		70	0.0		71.6	8	480	65	5	35	30	65	5	70	69.6	7.1	76.2	0.00	0.1	0.0	
	Generator	1	50	72		70	0.0		68.6	8	480	66	5	35	30	65	5	70	69.6	7.1	76.2	0.00	0.1	0.0	
	Backhoe	2	40	78		70	0.0		74.6	8	480	74	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
									Total for Building Construction Phase:			74.8													
Architectural Coating	Compressor (Air)	3	40	78		70	0.0		74.6	8	480	75	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
									Total for Architectural Coating Phase:			75.4													
Phase 3																									
Building Construction	crane	0	16	81		70	0.0		77.6	8	480	0	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
	Man lift	1	20	75		70	0.0		71.6	8	480	65	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
	Generator	1	50	72		70	0.0		68.6	8	480	66	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
	Backhoe	2	40	78		70	0.0		74.6	8	480	74	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
									Total for Building Construction Phase:			74.8													
Architectural Coating	Compressor (Air)	3	40	78		70	0.0		74.6	8	480	75	5	35	0	65	5	70	65.2	35.4	76.2	0.00	0.1	0.0	
									Total for Architectural Coating Phase:			75.4													

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at occupied building, per San Diego County (36.409) = 80
allowable hours over which Leq is to be averaged (example: 8 per SD County 36.409) = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Temporary Barrier Insertion Loss (dB)	Additional Noise Reduction	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	ILbarr (dB)	Notes
Phase 1																									
Demolition	concrete saw	1	20	90		240	0.0		72.2	8	480	65	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	excavator	3	40	81		240	0.0		63.2	8	480	64	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	dozer	2	40	82		240	0.0		64.2	8	480	63	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
									Total for Demolition Phase:			69.0													
Site Prep	dozer	3	40	82		240	0.0		64.2	8	480	65	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	backhoe	4	40	78		240	0.0		60.2	8	480	62	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
										8		66.9													
Grading	excavator	2	40	81		240	0.0		63.2	8	480	62	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	grader	1	40	85		240	0.0		67.2	8	480	63	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	dozer	1	40	82		240	0.0		64.2	8	480	60	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	scraper	2	40	84		240	0.0		66.2	8	480	65	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	backhoe	2	40	78		240	0.0		60.2	8	480	59	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
									Total for Grading Phase:			69.6													
Utility Installation	excavator	2	40	81		240	0.0		63.2	8	480	62	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	Backhoe	2	40	78		240	0.0		60.2	8	480	59	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
										8		64.0													
Paving	paver	2	50	77		240	0.0		59.2	8	480	59	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	roller	2	20	80		240	0.0		62.2	8	480	58	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
									Total for Paving Phase:			61.8													
Phase 2																									
Building Construction	crane	0	16	81		240	0.0		63.2	6	360	0	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	Man lift	1	20	75		240	0.0		57.2	6	360	49	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	Generator	1	50	72		240	0.0		54.2	8	480	51	5	35	30	236	4	240	237.3	6.4	241.9	0.00	0.1	0.0	
	Backhoe	2	40	78		240	0.0		60.2	6	360	58	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
									Total for Building Construction Phase:			59.2													
Architectural Coating	Compressor (Air)	3	40	78		240	0.0		60.2	6	360	60	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
									Total for Architectural Coating Phase:			59.8													
Phase 3																									
Building Construction	crane	0	16	81		240	0.0		63.2	6	360	0	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
	Man lift	1	20	75		240	0.0		57.2	6	360	49	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
	Generator	1	50	72		240	0.0		54.2	8	480	51	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
	Backhoe	2	40	78		240	0.0		60.2	6	360	58	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
									Total for Building Construction Phase:			59.2													
Architectural Coating	Compressor (Air)	3	40	78		240	0.0		60.2	6	360	60	5	35	0	236	4	240	236.1	35.2	241.9	0.00	0.1	0.0	
									Total for Architectural Coating Phase:			59.8													

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L_{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Phase 1					
Demolition	concrete saw	20	80	80	-- N/A --
Blasting	excavator	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	dozer	50	80	80	83
Chain Saw	No	20	84	85	84
Site Prep	dozer	20	87	93	87
Compactor (ground)	backhoe	20	80	80	83
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Grading	excavator	20	81	82	81
Concrete Saw	grader	20	90	90	90
Crane	dozer	16	81	85	81
Dozer	scraper	40	82	85	82
Drill Rig Truck	backhoe	20	79	84	79
Drum Mixer	No	50	80	80	80
Paving	paver	40	76	84	76
Excavator	roller	40	81	85	81
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Phase 2					
Building Construction	crane	20	80	80	-- N/A --
Blasting	Man lift	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	Generator	50	80	80	83
Boring Jack Power Unit	Backhoe	50	80	80	83
Chain Saw	No	20	84	85	84
Architectural Coating	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Phase 3					
Building Construction	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Architectural Coating	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarafier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivit Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74

Appendix C
Traffic Noise Modeling Input and Output

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Macario Drive	point1	1	144	25	2	25	1	25	0	0	0	0
	point2	2	144	25	2	25	1	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	219	25	4	25	2	25	0	0	0	0
	point10	10	219	25	4	25	2	25	0	0	0	0
	point11	11	219	25	4	25	2	25	0	0	0	0
	point12	12	219	25	4	25	2	25	0	0	0	0
	point13	13	219	25	4	25	2	25	0	0	0	0
	point14	14	219	25	4	25	2	25	0	0	0	0
	point15	15										
Redondo	point16	16	435	25	8	25	4	25	0	0	0	0
	point17	17	435	25	8	25	4	25	0	0	0	0
	point18	18	435	25	8	25	4	25	0	0	0	0
	point19	19	435	25	8	25	4	25	0	0	0	0
	point20	20	435	25	8	25	4	25	0	0	0	0
	point21	21	435	25	8	25	4	25	0	0	0	0
	point22	22	435	25	8	25	4	25	0	0	0	0
	point23	23	435	25	8	25	4	25	0	0	0	0
	point24	24	435	25	8	25	4	25	0	0	0	0
	point25	25	435	25	8	25	4	25	0	0	0	0
	point26	26	435	25	8	25	4	25	0	0	0	0
	point27	27	435	25	8	25	4	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	144	25	2	25	1	25	0	0	0	0
	point4	4	144	25	2	25	1	25	0	0	0	0
	point5	5	144	25	2	25	1	25	0	0	0	0
	point6	6	144	25	2	25	1	25	0	0	0	0
	point7	7	144	25	2	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	37.6	66	37.6	10	----	37.6	0.0	8	-8.0
OS-1	2	1	0.0	41.3	66	41.3	10	----	41.3	0.0	8	-8.0
ST1	3	1	45.2	53.0	66	7.8	10	----	53.0	0.0	8	-8.0
ST2	4	1	41.4	46.0	66	4.6	10	----	46.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	4	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway Name	Points Name	No.	Segment Autos V veh/hr	Autos S mph	MTrucks V veh/hr	MTrucks S mph	HTrucks V veh/hr	HTrucks S mph	Buses V veh/hr	Buses S mph	Motorcycles V veh/hr	Motorcycles S mph
Macario Drive	point1	1	258	25	5	25	2	25	0	0	0	0
	point2	2	258	25	5	25	2	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	321	25	6	25	3	25	0	0	0	0
	point10	10	321	25	6	25	3	25	0	0	0	0
	point11	11	321	25	6	25	3	25	0	0	0	0
	point12	12	321	25	6	25	3	25	0	0	0	0
	point13	13	321	25	6	25	3	25	0	0	0	0
	point14	14	321	25	6	25	3	25	0	0	0	0
	point15	15										
Redondo	point16	16	524	25	10	25	5	25	0	0	0	0
	point17	17	524	25	10	25	5	25	0	0	0	0
	point18	18	524	25	10	25	5	25	0	0	0	0
	point19	19	524	25	10	25	5	25	0	0	0	0
	point20	20	524	25	10	25	5	25	0	0	0	0
	point21	21	524	25	10	25	5	25	0	0	0	0
	point22	22	524	25	10	25	5	25	0	0	0	0
	point23	23	524	25	10	25	5	25	0	0	0	0
	point24	24	524	25	10	25	5	25	0	0	0	0
	point25	25	524	25	10	25	5	25	0	0	0	0
	point26	26	524	25	10	25	5	25	0	0	0	0
	point27	27	524	25	10	25	5	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	156	25	3	25	1	25	0	0	0	0
	point4	4	156	25	3	25	1	25	0	0	0	0
	point5	5	156	25	3	25	1	25	0	0	0	0
	point6	6	156	25	3	25	1	25	0	0	0	0
	point7	7	156	25	3	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

<Organization?>
<Analysis By?>
12 December 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	38.6	66	38.6	10	----	38.6	0.0	8	-8.0
OS-1	2	1	0.0	42.2	66	42.2	10	----	42.2	0.0	8	-8.0
ST1	3	1	45.2	54.1	66	8.9	10	----	54.1	0.0	8	-8.0
ST2	4	1	41.4	47.2	66	5.8	10	----	47.2	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	4	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway Name	Points Name	No.	Segment Autos V veh/hr	Autos S mph	MTrucks V veh/hr	MTrucks S mph	HTrucks V veh/hr	HTrucks S mph	Buses V veh/hr	Buses S mph	Motorcycles V veh/hr	Motorcycles S mph
Macario Drive	point1	1	144	25	2	25	1	25	0	0	0	0
	point2	2	144	25	2	25	1	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	220	25	4	25	2	25	0	0	0	0
	point10	10	220	25	4	25	2	25	0	0	0	0
	point11	11	220	25	4	25	2	25	0	0	0	0
	point12	12	220	25	4	25	2	25	0	0	0	0
	point13	13	220	25	4	25	2	25	0	0	0	0
	point14	14	220	25	4	25	2	25	0	0	0	0
	point15	15										
Redondo	point16	16	436	25	9	25	4	25	0	0	0	0
	point17	17	436	25	9	25	4	25	0	0	0	0
	point18	18	436	25	9	25	4	25	0	0	0	0
	point19	19	436	25	9	25	4	25	0	0	0	0
	point20	20	436	25	9	25	4	25	0	0	0	0
	point21	21	436	25	9	25	4	25	0	0	0	0
	point22	22	436	25	9	25	4	25	0	0	0	0
	point23	23	436	25	9	25	4	25	0	0	0	0
	point24	24	436	25	9	25	4	25	0	0	0	0
	point25	25	436	25	9	25	4	25	0	0	0	0
	point26	26	436	25	9	25	4	25	0	0	0	0
	point27	27	436	25	9	25	4	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	144	25	2	25	1	25	0	0	0	0
	point4	4	144	25	2	25	1	25	0	0	0	0
	point5	5	144	25	2	25	1	25	0	0	0	0
	point6	6	144	25	2	25	1	25	0	0	0	0
	point7	7	144	25	2	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

<Organization?>
<Analysis By?>

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TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	37.7	66	37.7	10	----	37.7	0.0	8	-8.0
OS-1	2	1	0.0	41.3	66	41.3	10	----	41.3	0.0	8	-8.0
ST1	3	1	45.2	53.0	66	7.8	10	----	53.0	0.0	8	-8.0
ST2	4	1	41.4	46.1	66	4.7	10	----	46.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	4	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Macario Drive	point1	1	259	25	5	25	2	25	0	0	0	0
	point2	2	259	25	5	25	2	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	322	25	6	25	3	25	0	0	0	0
	point10	10	322	25	6	25	3	25	0	0	0	0
	point11	11	322	25	6	25	3	25	0	0	0	0
	point12	12	322	25	6	25	3	25	0	0	0	0
	point13	13	322	25	6	25	3	25	0	0	0	0
	point14	14	322	25	6	25	3	25	0	0	0	0
	point15	15										
Redondo	point16	16	525	25	10	25	5	25	0	0	0	0
	point17	17	525	25	10	25	5	25	0	0	0	0
	point18	18	525	25	10	25	5	25	0	0	0	0
	point19	19	525	25	10	25	5	25	0	0	0	0
	point20	20	525	25	10	25	5	25	0	0	0	0
	point21	21	525	25	10	25	5	25	0	0	0	0
	point22	22	525	25	10	25	5	25	0	0	0	0
	point23	23	525	25	10	25	5	25	0	0	0	0
	point24	24	525	25	10	25	5	25	0	0	0	0
	point25	25	525	25	10	25	5	25	0	0	0	0
	point26	26	525	25	10	25	5	25	0	0	0	0
	point27	27	525	25	10	25	5	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	157	25	3	25	1	25	0	0	0	0
	point4	4	157	25	3	25	1	25	0	0	0	0
	point5	5	157	25	3	25	1	25	0	0	0	0
	point6	6	157	25	3	25	1	25	0	0	0	0
	point7	7	157	25	3	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

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TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y
M1-1	8	1	6,239,680.5	2,038,819.1	0.00	4.92	0.00	66	10.0	8.0	Y
M1-2	9	1	6,239,680.5	2,038,819.1	0.00	14.92	0.00	66	10.0	8.0	Y
M1-3	10	1	6,239,680.5	2,038,819.1	0.00	24.92	0.00	66	10.0	8.0	Y
M2-1	11	1	6,239,705.5	2,038,757.4	0.00	4.92	0.00	66	10.0	8.0	Y
M2-2	12	1	6,239,705.5	2,038,757.4	0.00	14.92	0.00	66	10.0	8.0	Y
M2-3	13	1	6,239,705.5	2,038,757.4	0.00	24.92	0.00	66	10.0	8.0	Y
M3-1	14	1	6,239,750.0	2,038,708.5	0.00	4.92	0.00	66	10.0	8.0	Y
M3-2	15	1	6,239,750.0	2,038,708.5	0.00	14.92	0.00	66	10.0	8.0	Y
M3-3	16	1	6,239,750.0	2,038,708.5	0.00	24.92	0.00	66	10.0	8.0	Y
M4-1	17	1	6,239,825.5	2,038,611.4	0.00	4.92	0.00	66	10.0	8.0	Y
M4-2	18	1	6,239,825.5	2,038,611.4	0.00	14.92	0.00	66	10.0	8.0	Y
M4-3	19	1	6,239,825.5	2,038,611.4	0.00	24.92	0.00	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	38.6	66	38.6	10	----	38.6	0.0	8	-8.0
OS-1	2	1	0.0	42.2	66	42.2	10	----	42.2	0.0	8	-8.0
ST1	3	1	45.2	54.1	66	8.9	10	----	54.1	0.0	8	-8.0
ST2	4	1	41.4	47.2	66	5.8	10	----	47.2	0.0	8	-8.0
M1-1	8	1	0.0	52.1	66	52.1	10	----	52.1	0.0	8	-8.0
M1-2	9	1	0.0	53.7	66	53.7	10	----	53.7	0.0	8	-8.0
M1-3	10	1	0.0	53.6	66	53.6	10	----	53.6	0.0	8	-8.0
M2-1	11	1	0.0	50.4	66	50.4	10	----	50.4	0.0	8	-8.0
M2-2	12	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0
M2-3	13	1	0.0	51.5	66	51.5	10	----	51.5	0.0	8	-8.0
M3-1	14	1	0.0	48.4	66	48.4	10	----	48.4	0.0	8	-8.0
M3-2	15	1	0.0	49.4	66	49.4	10	----	49.4	0.0	8	-8.0
M3-3	16	1	0.0	49.7	66	49.7	10	----	49.7	0.0	8	-8.0
M4-1	17	1	0.0	47.7	66	47.7	10	----	47.7	0.0	8	-8.0
M4-2	18	1	0.0	50.4	66	50.4	10	----	50.4	0.0	8	-8.0
M4-3	19	1	0.0	50.9	66	50.9	10	----	50.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	16	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Macario Drive	point1	1	174	25	3	25	1	25	0	0	0	0
	point2	2	174	25	3	25	1	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	271	25	5	25	2	25	0	0	0	0
	point10	10	271	25	5	25	2	25	0	0	0	0
	point11	11	271	25	5	25	2	25	0	0	0	0
	point12	12	271	25	5	25	2	25	0	0	0	0
	point13	13	271	25	5	25	2	25	0	0	0	0
	point14	14	271	25	5	25	2	25	0	0	0	0
	point15	15										
Redondo	point16	16	465	25	9	25	4	25	0	0	0	0
	point17	17	465	25	9	25	4	25	0	0	0	0
	point18	18	465	25	9	25	4	25	0	0	0	0
	point19	19	465	25	9	25	4	25	0	0	0	0
	point20	20	465	25	9	25	4	25	0	0	0	0
	point21	21	465	25	9	25	4	25	0	0	0	0
	point22	22	465	25	9	25	4	25	0	0	0	0
	point23	23	465	25	9	25	4	25	0	0	0	0
	point24	24	465	25	9	25	4	25	0	0	0	0
	point25	25	465	25	9	25	4	25	0	0	0	0
	point26	26	465	25	9	25	4	25	0	0	0	0
	point27	27	465	25	9	25	4	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	176	25	3	25	1	25	0	0	0	0
	point4	4	176	25	3	25	1	25	0	0	0	0
	point5	5	176	25	3	25	1	25	0	0	0	0
	point6	6	176	25	3	25	1	25	0	0	0	0
	point7	7	176	25	3	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

RESULTS: SOUND LEVELS **<Project Name?>**

<Organization?> **12 December 2022**
<Analysis By?> **TNM 2.5**
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: **<Project Name?>**
RUN: **<Run Title?>**
BARRIER DESIGN: **INPUT HEIGHTS**
ATMOSPHERICS: **68 deg F, 50% RH**

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	37.9	66	37.9	10	----	37.9	0.0	8	-8.0
OS-1	2	1	0.0	41.5	66	41.5	10	----	41.5	0.0	8	-8.0
ST1	3	1	45.2	53.6	66	8.4	10	----	53.6	0.0	8	-8.0
ST2	4	1	41.4	46.4	66	5.0	10	----	46.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	4	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Macario Drive	40.0	point1	1	6,239,927.5	2,038,855.9	0.00				Average	
		point2	2	6,239,846.5	2,038,825.0	0.00				Average	
		point3	3	6,239,780.0	2,038,802.2	0.00					
Roja Dr	35.0	point9	9	6,239,976.0	2,038,041.2	25.00				Average	
		point10	10	6,239,976.0	2,038,214.6	25.00				Average	
		point11	11	6,239,978.5	2,038,348.2	20.00				Average	
		point12	12	6,239,977.0	2,038,486.4	15.00				Average	
		point13	13	6,239,979.0	2,038,668.5	10.00				Average	
		point14	14	6,239,979.5	2,038,728.0	5.00				Average	
		point15	15	6,239,954.5	2,038,834.9	0.00					
Redondo	45.0	point16	16	6,239,187.5	2,037,476.8	25.00				Average	
		point17	17	6,239,185.5	2,037,620.4	25.00				Average	
		point18	18	6,239,204.5	2,037,667.8	25.00				Average	
		point19	19	6,239,235.0	2,037,708.0	25.00				Average	
		point20	20	6,239,275.5	2,037,754.6	25.00				Average	
		point21	21	6,239,368.5	2,037,797.9	25.00				Average	
		point22	22	6,239,444.5	2,037,835.5	25.00				Average	
		point23	23	6,239,602.0	2,037,911.1	25.00				Average	
		point24	24	6,239,675.0	2,037,940.2	25.00				Average	
		point25	25	6,239,721.5	2,037,965.0	25.00				Average	
		point26	26	6,239,776.5	2,037,991.6	25.00				Average	
		point27	27	6,239,839.0	2,038,008.1	25.00				Average	
		point28	28	6,239,949.0	2,038,007.0	25.00					
Monica Cir-2	40.0	point29	29	6,239,780.0	2,038,802.2	0.00				Average	
		point4	4	6,239,744.0	2,038,813.5	0.00				Average	

		point5	5	6,239,714.5	2,038,853.5	5.00				Average	
		point6	6	6,239,691.5	2,038,907.9	10.00				Average	
		point7	7	6,239,666.5	2,038,966.9	15.00				Average	
		point8	8	6,239,634.5	2,039,046.6	20.00					

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Macario Drive	point1	1	289	25	5	25	2	25	0	0	0	0
	point2	2	289	25	5	25	2	25	0	0	0	0
	point3	3										
Roja Dr	point9	9	373	25	7	25	3	25	0	0	0	0
	point10	10	373	25	7	25	3	25	0	0	0	0
	point11	11	373	25	7	25	3	25	0	0	0	0
	point12	12	373	25	7	25	3	25	0	0	0	0
	point13	13	373	25	7	25	3	25	0	0	0	0
	point14	14	373	25	7	25	3	25	0	0	0	0
	point15	15										
Redondo	point16	16	554	25	11	25	5	25	0	0	0	0
	point17	17	554	25	11	25	5	25	0	0	0	0
	point18	18	554	25	11	25	5	25	0	0	0	0
	point19	19	554	25	11	25	5	25	0	0	0	0
	point20	20	554	25	11	25	5	25	0	0	0	0
	point21	21	554	25	11	25	5	25	0	0	0	0
	point22	22	554	25	11	25	5	25	0	0	0	0
	point23	23	554	25	11	25	5	25	0	0	0	0
	point24	24	554	25	11	25	5	25	0	0	0	0
	point25	25	554	25	11	25	5	25	0	0	0	0
	point26	26	554	25	11	25	5	25	0	0	0	0
	point27	27	554	25	11	25	5	25	0	0	0	0
	point28	28										

Monica Cir-2	point29	29	187	25	3	25	1	25	0	0	0	0
	point4	4	187	25	3	25	1	25	0	0	0	0
	point5	5	187	25	3	25	1	25	0	0	0	0
	point6	6	187	25	3	25	1	25	0	0	0	0
	point7	7	187	25	3	25	1	25	0	0	0	0
	point8	8										

<Organization?>
<Analysis By?>

12 December 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
DP	1	1	6,239,178.5	2,038,383.1	0.00	4.92	0.00	66	10.0	8.0	Y
OS-1	2	1	6,239,289.5	2,038,112.1	0.00	4.92	0.00	66	10.0	8.0	Y
ST1	3	1	6,239,693.0	2,038,822.5	0.00	4.92	45.20	66	10.0	8.0	Y
ST2	4	1	6,239,701.0	2,038,264.6	25.00	4.92	41.40	66	10.0	8.0	Y
M1-1	8	1	6,239,675.0	2,038,829.4	0.00	4.92	0.00	66	10.0	8.0	Y
M1-2	9	1	6,239,675.0	2,038,829.4	0.00	14.92	0.00	66	10.0	8.0	Y
M1-3	10	1	6,239,675.0	2,038,829.4	0.00	24.92	0.00	66	10.0	8.0	Y
M2-1	11	1	6,239,707.0	2,038,749.6	0.00	4.92	0.00	66	10.0	8.0	Y
M2-2	12	1	6,239,707.0	2,038,749.6	0.00	14.92	0.00	66	10.0	8.0	Y
M2-3	13	1	6,239,707.0	2,038,749.6	0.00	24.92	0.00	66	10.0	8.0	Y
M3-1	14	1	6,239,745.0	2,038,706.1	0.00	4.92	0.00	66	10.0	8.0	Y
M3-2	15	1	6,239,745.0	2,038,706.1	0.00	14.92	0.00	66	10.0	8.0	Y
M3-3	16	1	6,239,745.0	2,038,706.1	0.00	24.92	0.00	66	10.0	8.0	Y
M4-1	17	1	6,239,791.5	2,038,690.0	0.00	4.92	0.00	66	10.0	8.0	Y
M4-2	18	1	6,239,791.5	2,038,690.0	0.00	14.92	0.00	66	10.0	8.0	Y
M4-3	19	1	6,239,791.5	2,038,690.0	0.00	24.92	0.00	66	10.0	8.0	Y
M5-1	20	1	6,239,828.0	2,038,607.4	0.00	4.92	0.00	66	10.0	8.0	Y
M5-2	21	1	6,239,828.0	2,038,607.4	0.00	14.92	0.00	66	10.0	8.0	Y
M5-3	22	1	6,239,828.0	2,038,607.4	0.00	24.92	0.00	66	10.0	8.0	Y

<Organization?> 12 December 2022
<Analysis By?> TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	6,239,619.0	2,038,822.5	0.00	30.00	0.00	0	0		
									point2	2	6,239,667.0	2,038,700.2	0.00	30.00	0.00	0	0		
									point3	3	6,239,716.5	2,038,720.2	0.00	30.00	0.00	0	0		
									point4	4	6,239,666.0	2,038,845.2	0.00	30.00	0.00	0	0		
									point5	5	6,239,619.0	2,038,822.5	0.00	30.00					
Barrier2	W	0.00	99.99	0.00				0.00	point6	6	6,239,667.0	2,038,670.8	0.00	30.00	0.00	0	0		
									point7	7	6,239,685.5	2,038,622.0	0.00	30.00	0.00	0	0		
									point8	8	6,239,797.0	2,038,662.6	0.00	30.00	0.00	0	0		
									point9	9	6,239,778.5	2,038,714.9	0.00	30.00	0.00	0	0		
									point10	10	6,239,667.0	2,038,670.8	0.00	30.00					
Barrier3	W	0.00	99.99	0.00				0.00	point11	11	6,239,701.0	2,038,593.8	0.00	30.00	0.00	0	0		
									point12	12	6,239,717.5	2,038,545.0	0.00	30.00	0.00	0	0		
									point13	13	6,239,830.5	2,038,585.0	0.00	30.00	0.00	0	0		
									point14	14	6,239,814.5	2,038,636.5	0.00	30.00	0.00	0	0		
									point15	15	6,239,701.0	2,038,593.8	0.00	30.00					

<Organization?>			12 December 2022	
<Analysis By?>			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	<Project Name?>			
RUN:	<Run Title?>			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,239,091.0	2,038,352.2	0.00
	2	6,239,089.0	2,038,293.1	0.00
	3	6,239,106.5	2,038,144.6	0.00
	4	6,239,117.0	2,037,955.4	0.00
	5	6,239,310.5	2,038,035.6	0.00
	6	6,239,552.0	2,038,144.6	0.00
	7	6,239,670.5	2,038,203.6	0.00
	8	6,239,663.5	2,038,257.9	0.00
	9	6,239,655.0	2,038,312.9	0.00
	10	6,239,704.5	2,038,394.5	0.00
	11	6,239,784.5	2,038,551.4	0.00
	12	6,239,864.0	2,038,581.2	0.00
	13	6,239,891.5	2,038,631.1	0.00
	14	6,239,839.0	2,038,716.8	0.00
	15	6,239,818.0	2,038,783.0	0.00
	16	6,239,721.0	2,038,803.4	0.00
	17	6,239,663.5	2,038,878.5	0.00
	18	6,239,446.5	2,038,782.4	0.00
	19	6,239,313.0	2,038,719.1	0.00
	20	6,239,138.5	2,038,656.4	0.00
	21	6,239,119.5	2,038,531.9	0.00
	22	6,239,098.0	2,038,410.8	0.00

<Organization?>
<Analysis By?>
12 December 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: <Project Name?>
RUN: <Run Title?>
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

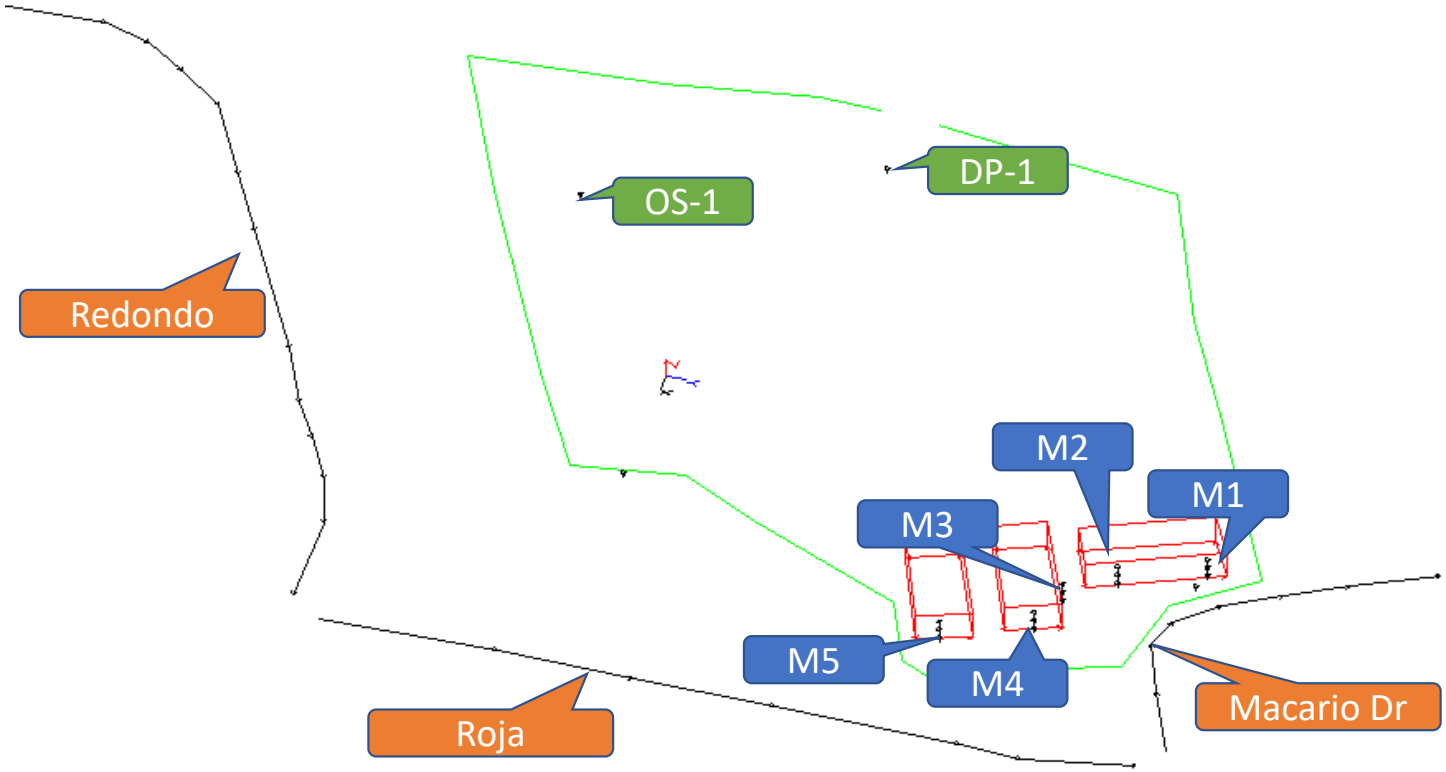
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
DP	1	1	0.0	38.8	66	38.8	10	----	38.8	0.0	8	-8.0
OS-1	2	1	0.0	42.4	66	42.4	10	----	42.4	0.0	8	-8.0
ST1	3	1	45.2	54.5	66	9.3	10	----	54.5	0.0	8	-8.0
ST2	4	1	41.4	47.4	66	6.0	10	----	47.4	0.0	8	-8.0
M1-1	8	1	0.0	52.7	66	52.7	10	----	52.7	0.0	8	-8.0
M1-2	9	1	0.0	54.2	66	54.2	10	----	54.2	0.0	8	-8.0
M1-3	10	1	0.0	54.1	66	54.1	10	----	54.1	0.0	8	-8.0
M2-1	11	1	0.0	50.7	66	50.7	10	----	50.7	0.0	8	-8.0
M2-2	12	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0
M2-3	13	1	0.0	51.5	66	51.5	10	----	51.5	0.0	8	-8.0
M3-1	14	1	0.0	48.6	66	48.6	10	----	48.6	0.0	8	-8.0
M3-2	15	1	0.0	49.5	66	49.5	10	----	49.5	0.0	8	-8.0
M3-3	16	1	0.0	49.8	66	49.8	10	----	49.8	0.0	8	-8.0
M4-1	17	1	0.0	50.0	66	50.0	10	----	50.0	0.0	8	-8.0
M4-2	18	1	0.0	51.5	66	51.5	10	----	51.5	0.0	8	-8.0
M4-3	19	1	0.0	51.8	66	51.8	10	----	51.8	0.0	8	-8.0
M5-1	20	1	0.0	48.3	66	48.3	10	----	48.3	0.0	8	-8.0
M5-2	21	1	0.0	51.2	66	51.2	10	----	51.2	0.0	8	-8.0
M5-3	22	1	0.0	51.7	66	51.7	10	----	51.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	19	0.0	0.0	0.0

All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Appendix C: Modeled Receptor Locations



Appendix D
Residential HVAC Noise Prediction

SOURCE: Dudek 2021

DUDEK

N

0 150 300 Feet

FIGURE 1
Nighttime Operation Noise Levels
Pacifica Development Project

SOURCE: Dudek 2021

DUDEK

0 150 300 Feet

FIGURE 2
Daytime Operations Noise Levels
Pacifica Development Project

Appendix K
VMT Analysis

TO:	Johanna Crooker, Director of Entitlements; MLC Holdings
FROM:	Jonathan Sanchez, PE, TE, PTOE; CR Associates
DATE:	May 12, 2023
RE:	Pacifica Housing Project – Vehicle Miles Traveled Analysis

The purpose of this memorandum is to document the results of the Vehicle Miles Traveled (VMT) Analysis conducted for the Pacifica Housing Project (the "Project"). The analysis is based on the City of Oceanside's (the "City") Transportation Impact Analysis Guidelines (TIA Guidelines).

Project Description

The Project seeks to construct 164 multi-family residential townhomes on the old Pacifica Elementary School site located adjacent to the intersection of Monica Circle and Macario Drive in Oceanside. The property is bordered by single family dwelling units on all sides. The site is currently designated for elementary school land use. **Figure 1** displays the Project's regional location. **Figure 2** displays the project site plan.

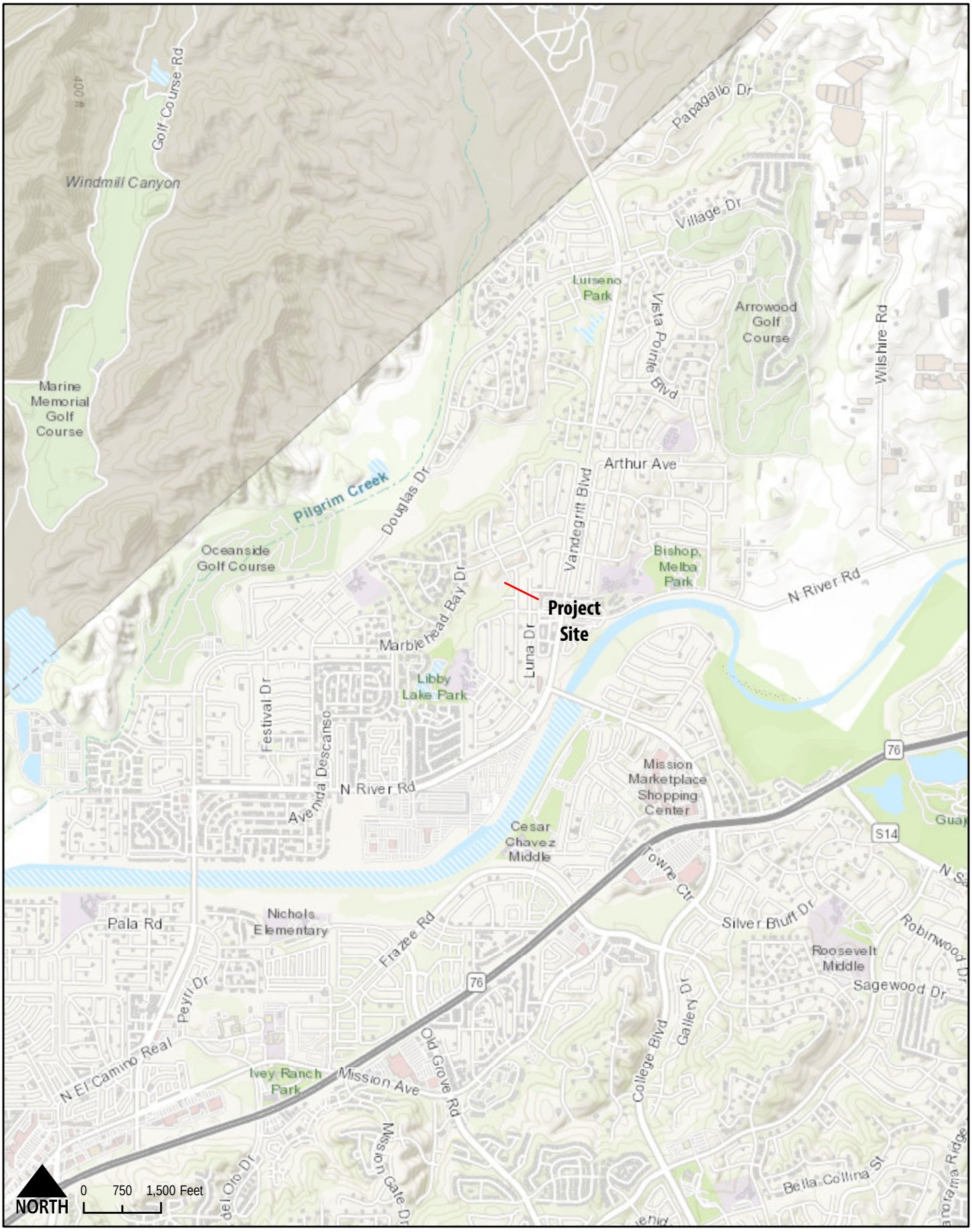
VMT Analysis Screening

VMT analysis screening criteria were obtained from Table 2 of the City's TIA Guidelines. The following are the screening criteria relevant to the Project's proposed land use:

- Projects located in a Transit Priority Area (TPA) or Smart Growth Opportunity Area as identified in the most recent SANDAG San Diego Forward Regional Plan and is consistent with the General Plan at the time of project application.
- Projects located in a low-VMT generating area identified on the most recent SANDAG SB 743 VMT Screening map.
- Affordable housing projects.
- Projects generating less than 500 daily vehicle trips (if inconsistent with adopted General Plan)

Based upon the criterion provided above, the Project would not be screened out from conducting a VMT analysis based on the City's TIA Guidelines because of the following reasons:

- Although the Project is located within a ½ mile walking distance, without discontinuity of sidewalk or obstructions to the route, of the San Luis Rey Transit Center, the Project is inconsistent with the City's General Plan. **Figure 3** displays the walking distance from the Project to the San Luis Rey Transit Center.
- The Project is not located in a low-VMT generating area per the most recent SANDAG SB 743 VMT screening maps. **Figure 4** displays the Project's VMT screening map location and associated VMT.
- The Project is not an affordable housing project.
- The Project generates more than 500 daily trips.



Pacifica Housing Project
VMT Analysis

C+R

Figure 1
Project Regional Location

Primary Community Entry
- Utilizes existing driveway
- No gate
- To be enhanced with decorative paving, landscaping and community signage

Existing Slope
- Provides approximately 30 feet of elevation difference between existing homes and new homes below.

Typical Three-Story Townhome Building
- 4 building types
- 2 elevation styles
- 3 floor plan variation
- Maximum height of 38.0 feet
- Oriented to provide front doors along streetscapes and paseos

Amenity Area A
- 10,126 SF
- Minimum dimension of 20 feet
- See Amenity Plan for details

Amenity Area B
- 21,143 SF
- Dog park and fire pits for community gathering (Please see Amenity Plan)

Central Paseo
- 6,121 SF
- Provides a central spine trail that connects amenity areas to promote walkability
- Enhanced with landscaping and special paving at crosswalks

Basin and Habitat Setback
- Stormwater basin for hydromodification and water quality treatment
- Habitat and planning setbacks to protect adjacent existing wetlands

Amenity Area C
- 10,502 SF
- Pickle Ball Courts, Barbecue area, open lawn for games and unstructured play (Please see Amenity Plan)

Secondary Access
- Emergency Vehicle Access Only
- Gated at the existing terminus of Malaga Drive

Project Summary

Property Size (Gross): 14.55 Acres

Developable Area (Net)[1]: 12.82 Acres

Development Pad Area: 10.23 Acres

No. of Units: 164 Three-Story Townhomes[2]
- (16) Plan 2532: 1210 SF, 2 bed., 2.5 baths, 2-car gar.
- (75) Plan 1633: 1497 SF, 3 bed., 2.5 baths, 2-car gar.
- (73) Plan 1636: 1791 SF, 4 bed., 2.5 baths, 2-car gar.

Density[3]: 12.8 du/ac

Proposed Setbacks:
- Front (To Monica/Macario Dr): 15' to building / 12' to patio
- Side (N and S Bndy): 74' Minimum
- Rear (E Bndy): 65' Minimum

Parking Required:
- Resident: 2 Spaces per Unit (1 covered)
- Guest Spaces: 1 + 20% of total units (34 spaces)

Parking Provided:
- Resident: Private 2-car garage per unit
- Guest Spaces[10]: 56 spaces

Open Space Required:
- Total: 300 SF per Unit x 164 = 49,200 SF
- Private Open Space minimum dimension of 5 feet
- At least 50% shall be Common = 24,600 SF
- At least two common area shall be 4,000 SF Min (or one at 8,000 SF Min); Minimum dimension of 20 feet

Open Space Provided:
- Total: 78,412 SF (478 SF per unit)
- Private OS (5' min): 24,500 SF
- Common Open Space (20' min; 8000 SF Min): 53,712 SF

Bldg Coverage: 3.21 AC. (22.1%)

Notes:
1. Excludes slopes surrounding the site in accordance with Section 3039 of the City of Oceanside Zoning Ordinance.
2. Type VB construction with NFPA 13D automatic sprinkler system.
3. Density based on Development Area.
4. Inclusionry housing requirement to be met through payment of in-lieu fee.
5. Existing General Plan/Zoning: CI/PS
6. Proposed General Plan: Medium Density B (10-15 du/ac)
7. Proposed Zoning: Planned Development
8. Coastal Zone: No
9. Assessor's Parcel Numbers: 157-070-42-00, 122-190-19-00, and 122-190-22-00
10. Guest Parking Spaces are 16' x 8.5' with 2' overhang; Includes 3 ADA Spaces that are 18' x 9'

North

0 50 100
1" = 50'

GPA22-00001/ZA22-00003/T22-00005/D22-00013

Conceptual Site Plan

MLC Holdings, Inc. Meritage Homes

Pacifica Elementary
Oceanside, Ca

03.29.2023
P-1

Figure 3 - Walking Distance to Transit Station

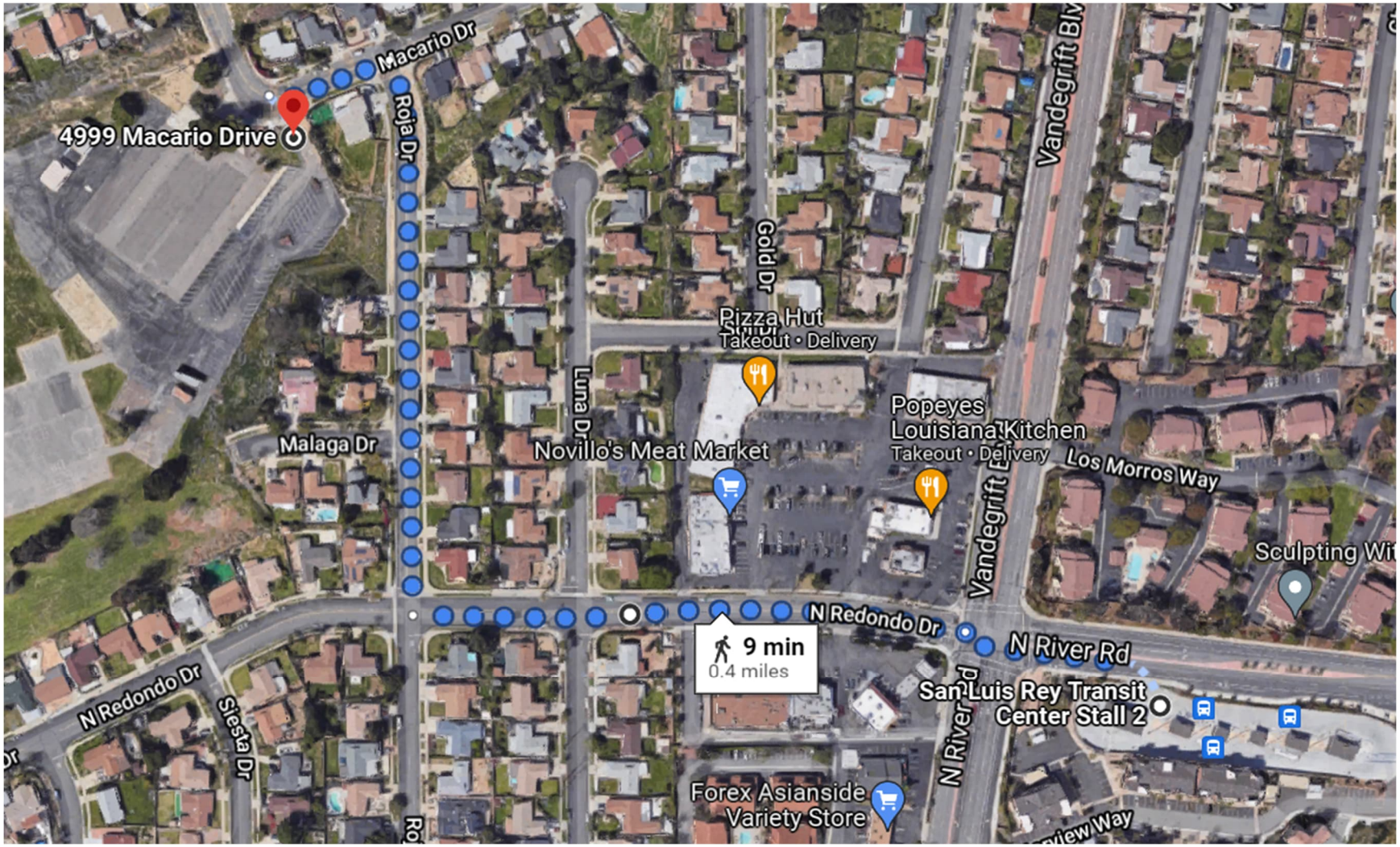
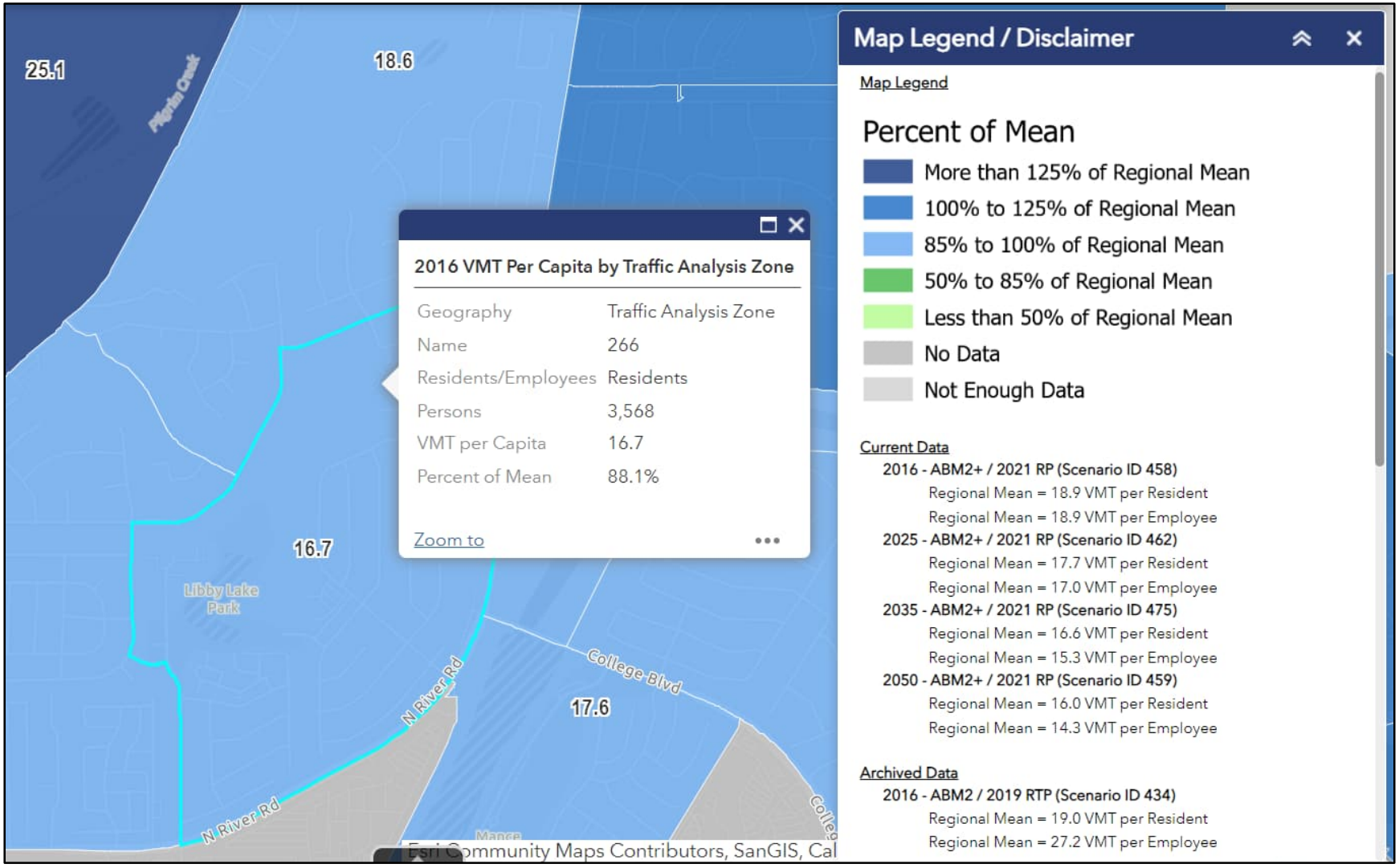


Figure 4 - VMT Screening Map



VMT Analysis

As mentioned previously, the Project's VMT per Capita was obtained from the most recent SANDAG VMT screening maps. Per the City's TIA Guidelines, a residential project is determined to have a significant impact if the project generates VMT per Capita greater than 85 percent of the regional average. As seen in Figure 4, the Project site is located in a TAZ that generates 16.7 VMT per Capita, which is over the significant impact threshold.

However, the Project is in a suburban area (TAZ 266) composed mostly by single-family dwelling units (average density of 3.6 du/acre[1]) which tend to have higher automobile ownership as compared to the region, hence, typically generate higher VMT per Capita. Therefore, the surrounding single-family residential land uses are used to estimate the neighborhood's trip characteristics.

Per the California Air Pollution Control Officers Association (CAPCOA) *Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity* (CAPCOA Report), T-1 Increase Residential Density, residential projects designed with a higher density of dwelling units compared to the average residential density in the U.S., exhibit lower VMT per Capita. Increased densities affect the distance people travel and provide greater options for the mode of travel they choose. Increasing residential density results in shorter and fewer trips by single-occupancy vehicles and thus a reduction in GHG emissions. Applying the percentage reduction in VMT to the Project based on the measure described above yields a nine percent reduction in VMT per Capita.

Table 1 summarizes the anticipated reduction in VMT per Capita to the Project based on the increase in residential density. Detailed calculations associated with the percent reduction in VMT are included in **Attachment A**.

Table 1 - Reduction in VMT per Capita

VMT Per Capita (Project TAZ)	Mitigation Measure	% Reduction	VMT Per Capita (Project)
16.7[1]	T-1 Increase Residential Density	9%[2]	15.19

Source: CR Associates (2023)

Note:
[1] Source = SANDAG Series 14 ABM2+/2021 RP Year 2016 Base Model
[2] Source = CAPCOA Report, T-1 Increase Residential Density. See Attachment A for details.

Furthermore, it is important to note that the Project is located less than ½-mile walking distance from the San Luis Rey Transit Center. Nevertheless, since the Project is not consistent with the City's General Plan, the Project is not screened out based on this criterion. However, consistency with a general plan is not a factor that directly influences VMT.

Therefore, the Project's proximity to a high-quality transit station in concert with an increased density in residential density would suffice to presume the Project as having a less than significant VMT impact.

[1] According to SANDAG Series 14 ABM2+/2021 RP Year 2016 Base Model Socioeconomic Data (TAZ 266, MGRAs 15182 to 15196).

Table 2 summarizes the VMT analysis results. The regional average VMT was determined using the SANDAG Series 14 ABM2+/2021 RP Year 2016 Base model.

Table 2 - VMT Impact Analysis Results

Metric	VMT per Capita
Regional Average	18.90[1]
Significant Impact Threshold (85%)	16.07[2]
Project TAZ	16.70
VMT Reduction (T-1 Increase Residential Density)	9%
Project	15.19
Significant Impact	**No**

Source: CR Associates (2023)

Notes:
[1] Source = SANDAG Series 14 ABM2+/2021 RP Year 2016 Base Model
[2] Regional Average x 85%

As shown in Table 2, the Project is anticipated to generate VMT per Capita of 15.19, which is below the significance threshold of 16.07 miles. Therefore, the Project is deemed to have a less than significant VMT impact.

Additionally, to further reduce the average VMT per Capita of the Project, the Project will implement a Transportation Demand Management (TDM) Program. A TDM program would facilitate increased opportunities for walking and bicycling, as well as provide the resources, means, and incentives for ridesharing and carpooling.

The CAPCOA Report provides mitigation measures that are considered non-quantifiable for the Project due to the implementation requirements or measure description in relation to the Project's land use (i.e., a residential project rather than an employment project). Based on discussions with the project applicant, the Project will implement the following non-quantifiable VMT reduction strategies to encourage alternative modes of transportation:

1. Creation and distribution of a "new resident" information packet addressing alternative modes of transportation (CAPCOA T-7: Implement Commute Trip Reduction Marketing).
2. Provide on-site bike parking (CAPCOA T-10: Provide End-of-Trip Bicycle Facilities).

It is important to note that the strategies described above are not applicable for residential projects. Hence, no VMT reduction credit is assumed as a result of implementing these strategies.

See **Attachment B** for details on the selected VMT mitigation measure, as well as a full list of other measures that were taken into consideration and their respective feasibility determination.

Conclusion

The Project's VMT per Capita is anticipated to fall under the significance threshold per the City's TIA Guidelines based on the reductions in VMT per Capita provided by the increased residential density of the project. Therefore, the **Project is deemed to have a less than significant VMT impact.**

Attachment A - VMT Reduction Calculation

Measure Description (T-1 Increase Residential Density)

T-1. Increase Residential Density

GHG Mitigation Potential

30% Up to 30.0% of GHG emissions from project VMT in the study area

Co-Benefits (icon key on pg. 34)

Climate Resilience

Increased density can put people closer to resources they may need to access during an extreme weather event. Increased density can also shorten commutes, decreasing the amount of time people are on the road and exposed to hazards such as extreme heat or flooding.

Health and Equity Considerations

Neighborhoods should include different types of housing to support a variety of household sizes, age ranges, and incomes.

Measure Description

This measure accounts for the VMT reduction achieved by a project that is designed with a higher density of dwelling units (du) compared to the average residential density in the U.S. Increased densities affect the distance people travel and provide greater options for the mode of travel they choose. Increasing residential density results in shorter and fewer trips by single-occupancy vehicles and thus a reduction in GHG emissions. This measure is best quantified when applied to larger developments and developments where the density is somewhat similar to the surrounding area due to the underlying research being founded in data from the neighborhood level.

Subsector

Land Use

Locational Context

Urban, suburban

Scale of Application

Project/Site

Implementation Requirements

This measure is most accurately quantified when applied to larger developments and/or developments where the density is somewhat similar to the surrounding neighborhood.

Cost Considerations

Depending on the location, increasing residential density may increase housing and development costs. However, the costs of providing public services, such as health care, education, policing, and transit, are generally lower in more dense areas where things are closer together. Infrastructure that provides drinking water and electricity also operates more efficiently when the service and transmission area is reduced. Local governments may provide approval streamlining benefits or financial incentives for infill and high-density residential projects.

Expanded Mitigation Options

When paired with Measure T-2, *Increase Job Density*, the cumulative densification from these measures can result in a highly walkable and bikeable area, yielding increased co-benefits in VMT reductions, improved public health, and social equity.

GHG Reduction Formula

$$A = \frac{B - C}{C} \times D$$

GHG Calculation Variables

ID	Variable	Value	Unit	Source
Output				
A	Percent reduction in GHG emissions from project VMT in study area	0–30.0	%	calculated
User Inputs				
B	Residential density of project development	[ ]	du/acre	user input
Constants, Assumptions, and Available Defaults				
C	Residential density of typical development	9.1	du/acre	Ewing et al. 2007
D	Elasticity of VMT with respect to residential density	-0.22	unitless	Stevens 2016

Further explanation of key variables:

- (C) – The residential density of typical development is based on the blended average density of residential development in the U.S. forecasted for 2025. This estimate includes apartments, condominiums, and townhouses, as well as detached single-family housing on both small and large lots. An acre in this context is defined as an acre of developed land, not including streets, school sites, parks, and other undevelopable land. If reductions are being calculated from a specific baseline derived from a travel demand forecasting model, the residential density of the relevant transportation analysis zone should be used instead of the value for a typical development.
- (D) – A meta-regression analysis of five studies that controlled for self-selection found that a 0.22 percent decrease in VMT occurs for every 1 percent increase in residential density (Stevens 2016).

GHG Calculation Caps or Maximums

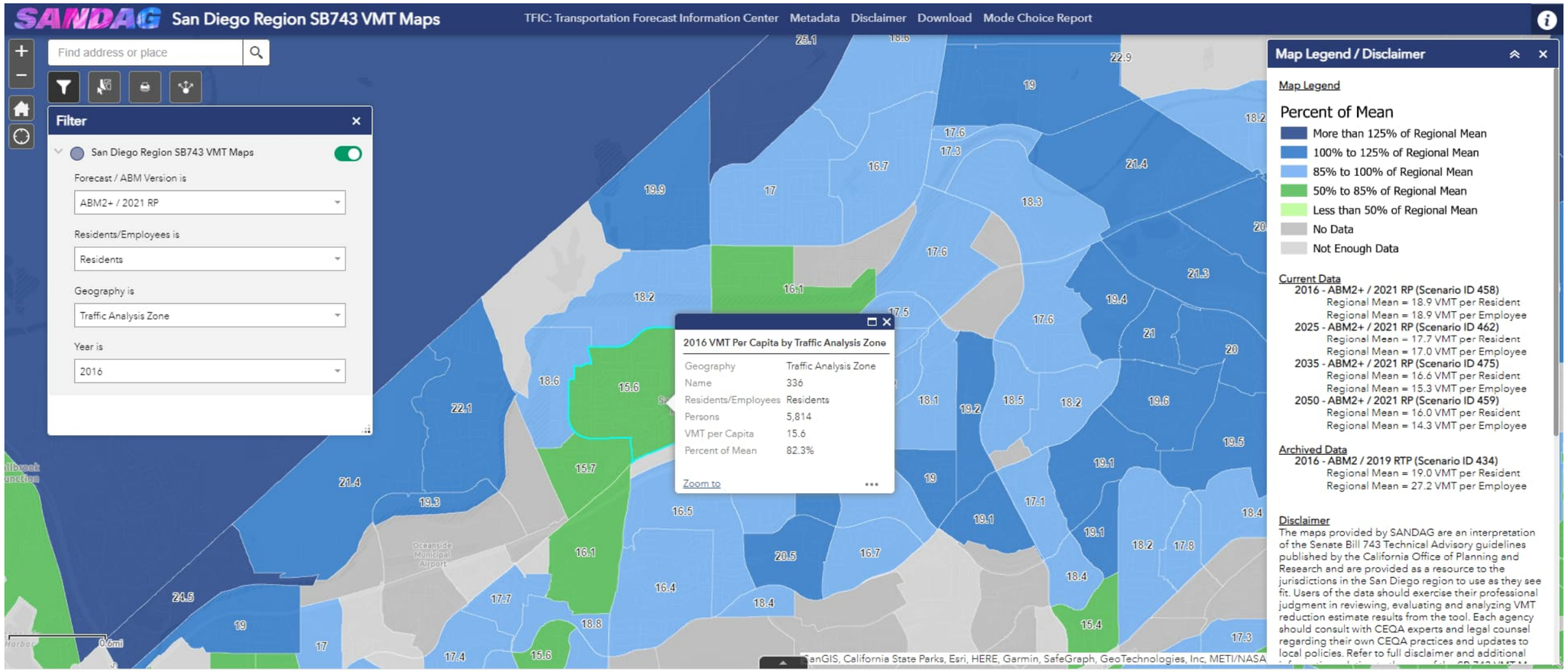
Measure Maximum

(A_{max}) The percent reduction in GHG emissions (A) is capped at 30 percent. The purpose for the 30 percent cap is to limit the influence of any single built environmental factor (such as density). Projects that implement multiple land use strategies (e.g., density, design, diversity) will show more of a reduction than relying on improvements from a single built environment factor.

VMT Reduction Calculation

A	-0.09	%	<-- Calculated VMT Reduction
B	12.8	du/ac	<-- Obtained from Site Plan
C	9.1	du/ac	<-- Default Value provided in CAPCOA Report (See Note in the next page)
D	-0.22	unitless	<-- Default Value provided in CAPCOA Report

Note:
The calculated density for the TAZ the project is located in (3.6 du/acre) yields a VMT reduction of 56 percent, which would be capped at the maximum allowed VMT reduction for this strategy which is 30 percent. However, a 30 percent reduction would bring down the Project's VMT to 11.69 VMT per Capita, which is unlikely as the lowest VMT per Capita (TAZ) identified in the vicinity of the Project's TAZ is 15.6. Therefore, as a conservative approach, the default value for a typical development in the U.S. of 9.1 du/ac was utilized for the analysis.



Attachment B - VMT Mitigation Measures

VMT Reduction Mitigation Measures (Applicable to Residential Projects)

Mitigation Measure (from CAPCOA Report)	Feasibility
TDM-T-1-Increase Residential Density	Yes - Project has a higher density of dwelling units per acre compared to the average residential density in the U.S., and it is estimated that the VMT per Capita for the Project will be reduced by 9% that of the VMT per Capita calculated for the TAZ the project is located in.
TDM-T-7-Implement Commute Trip Reduction Marketing	No - However, trip reduction marketing ("new resident information package") will be provided to residents. It is important to note that no VMT reductions are assumed as a result of implementing this strategy.
TDM-T-9-Implement Subsidized or Discounted Transit Program	No - Not feasible for a for-sale residential project since it would have to be subsidized by the homeowners.
TDM-T-10-Provide End-of-Trip Bicycle Facilities	No - However, end-of-trip bicycle facilities (bike parking) will be provided to residents. It is important to note that no VMT reductions are assumed as a result of implementing this strategy.
TDM-T-14-Provide Electric Vehicle Charging Infrastructure	No - Although project is providing EV ready infrastructure as well as several EV charging ready visitor guest parking, these only meet the minimum requirements. Additionally, EV charging infrastructure only reduces gas emissions and does not reduce VMT.
TDM-T-15-Limit Residential Parking Supply	No - Not feasible to reduce parking for this residential project without negatively impacting existing neighborhood.
TDM-T-18-Provide Pedestrian Network Improvement	No - Although the project is providing pedestrian improvements within project site and project frontage, it is not financially feasible to provide new pedestrian network improvements beyond the project site since the surrounding neighborhood is already builtout with adequate sidewalks.
TDM-T-21-A-Implement Conventional Carshare Program	No - Not financially feasible for project to implement a carshare program.
TDM-T-21-B-Implement Electric Carshare Program	No - Not financially feasible for project to implement an electric carshare program.
TDM-T-22-A-Implement Pedal (Non-Electric) Bikeshare Program	No - Not financially feasible for project to implement a pedal bikeshare program.
TDM-T-22-B-Implement Electric Bikeshare Program	No - Not financially feasible for project to implement an electric bikeshare program.
TDM-T-22-C-Implement Scootershare Program	No - Not financially feasible for project to implement a scootershare program.

Appendix L
Local Transportation Study

PACIFICA HOUSING PROJECT

FINAL
Local Transportation Study

JUNE 2023

Prepared For

MLC Holdings, Inc
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

Prepared By

CR Associates
3900 Fifth Avenue, Suite 310
San Diego, CA 92103

Executive Summary

Project Description and Setting

The Proposed Project seeks to construct 164 multi-family residential townhomes on the old Pacifica Elementary School Site located at the southwest corner of the Monica Circle and Macario Drive intersection within the City of Oceanside. The property is bordered by single family dwelling units on all sides. The site is currently designated for elementary school land use.

The Proposed Project will be accessed primarily via the existing driveway which is the south leg of the three-legged intersection at Monica Circle and Macario Drive. The project driveway will function as a side-street stop-controlled intersection with full access. A secondary access point (emergency only) will be located at Malaga Drive. The anticipated opening year of the Proposed Project is 2025.

Per the City's Traffic Impact Analysis Guidelines, trip generation rates were derived from the SANDAG's (not so) Brief Guide to Vehicular Traffic Generation Rates for the San Diego Region (April 2002). **Table ES.1** displays the projected daily, as well as AM and PM peak hour, project trip generation.

Table ES.1 - Project Trip Generation

Land Use	Units	Trip Rate	ADT	AM Peak Hour					PM Peak Hour				
				%	Trips	Split	In	Out	%	Trips	Split	In	Out
Multi-Family (6-20 DU/acre)	164 DU	8/DU	1,312	8	105	2:8	21	84	10	132	7:3	92	40

Source: SANDAG (not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002)

Notes:
ADT = Average Daily Traffic
DU = Dwelling Unit

As shown, the Proposed Project is anticipated to generate 1,312 daily trips, including 105 trips (21-in/84-out) during the AM peak hour and 132 (92-in/40-out) trips during the PM peak hour.

The following four (4) roadway segments and five (5) intersections were included for analysis:

<u>Roadway Segments</u>

- Monica Circle, between Claire Drive and Macario Drive
- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive
- North Redondo Drive, between Roja Drive and North River Road

<u>Intersections</u>

1. Monica Circle & Claire Drive (Side-Street Stop-Controlled)
2. Roja Drive & Macario Drive (All-Way Stop-Controlled)
3. Roja Drive & North Redondo Drive (Side-Street Stop-Controlled)
4. Vandergrift Boulevard & North Redondo Drive/North River Road (Signal)
5. Monica Circle/Project Driveway & Macario Drive (Side-Street Stop-Controlled)

A VMT analysis was conducted to satisfy the requirements of CEQA. The VMT analysis is part of a separate document. The LOS analysis conducted as part of this study was used to evaluate any potential LOS impacts on the surrounding circulation network as a result of the Proposed Project. Per the City's Traffic Impact Analysis Guidelines, the City of Oceanside strives to ensure the goals, objectives, and policies adopted by the City are supported and implemented while monitoring the capacity for the roadway networks. Improvements should be identified for any study facilities that do not meet City LOS standards to increase performance to acceptable or pre-project conditions. A transportation impact in relation to LOS is considered a non-CEQA transportation impact based on the City's Traffic Guidelines.

LOS Impacts and Improvement Requirements

Improvement Requirements – Existing with Project Conditions

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity[1] with implementation of the Proposed Project under Existing with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS D or better under Existing with Project conditions. Therefore, no study intersections are anticipated to degrade in LOS to unacceptable levels with implementation of the Proposed Project and no improvements will be required.

[1] Above Capacity - Based upon the City's Circulation Element, Local Streets are designated with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.

Improvement Requirements – Near-Term Year 2025 with Project Conditions

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity[1] with implementation of the Proposed Project under Near-Term Year 2025 Base with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS B or better under Near-Term Year 2025 Base with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 0.5 seconds in the AM peak hour and 1.5 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

Improvement Requirements – Horizon Year 2050 with Project Conditions

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity[1] with implementation of the Proposed Project under Horizon Year 2050 with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be

necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS C or better under Horizon Year 2050 with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 1.5 seconds in the AM peak hour and 1.2 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

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1.0 Introduction

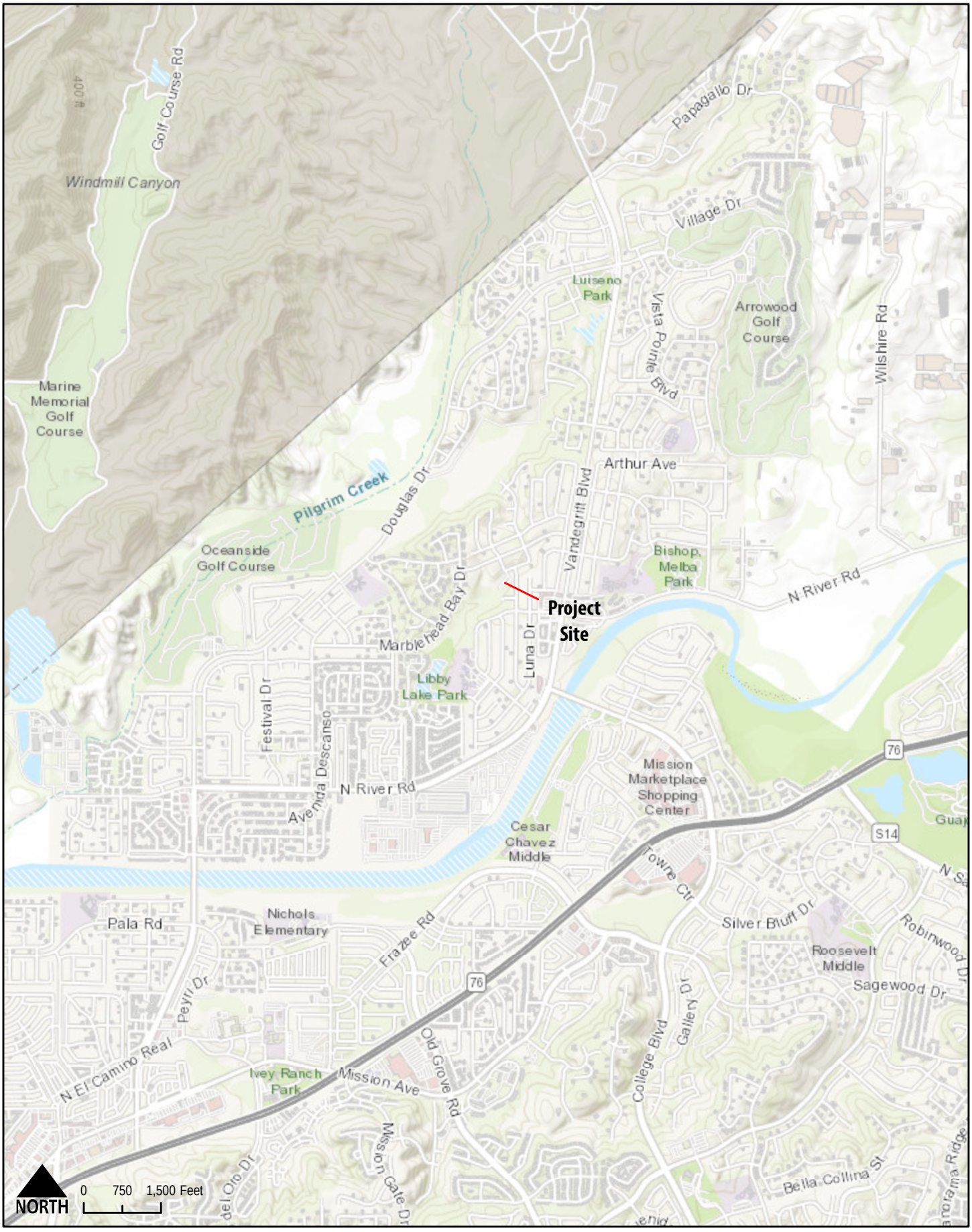
The purpose of this Local Transportation Study (LTS) is to identify and document any potential level of service (LOS) impacts associated with the Pacifica Housing project (the "Proposed Project"), and to recommend improvement requirements, as necessary.

1.1 Project Description

The Proposed Project seeks to construct 164 multi-family residential townhomes on the old Pacifica Elementary School Site located at the southwest corner of the Monica Circle and Macario Drive intersection within the City of Oceanside. The property is bordered by single family dwelling units on all sides. The site is currently designated for elementary school land use.

The Proposed Project will be accessed primarily via the existing driveway which is the south leg of the three-legged intersection at Monica Circle and Macario Drive. The project driveway will function as a side-street stop-controlled intersection with full access. A secondary access point (emergency only) will be located at Malaga Drive. The anticipated opening year of the Proposed Project is 2025. **Figure 1.1** displays the Proposed Project's regional location. **Figure 1.2** displays the site plan for the Proposed Project.

A VMT analysis was conducted to satisfy the requirements of CEQA. The VMT analysis is part of a separate document. The LOS analysis conducted as a part of this study was used to evaluate any potential LOS impacts on the surrounding circulation network as a result of the Proposed Project. Per the City's Traffic Impact Analysis Guidelines, the City of Oceanside strives to ensure the goals, objectives, and policies adopted by the City are supported and implemented while monitoring the capacity for the roadway networks. Improvements should be identified for any study facilities that do not meet City LOS standards to increase performance to acceptable or pre-project conditions.



Pacifica Housing Project
Local Transportation Study

Figure 1.1
Project Regional Location

Primary Community Entry
- Utilizes existing driveway
- No gate
- To be enhanced with decorative paving, landscaping and community signage

Existing Slope
- Provides approximately 30 feet of elevation difference between existing homes and new homes below.

Typical Three-Story Townhome Building
- 4 building types
- 2 elevation styles
- 3 floor plan variation
- Maximum height of 38.0 feet
- Oriented to provide front doors along streetscapes and paseos

Amenity Area A
- 10,126 SF
- Minimum dimension of 20 feet
- See Amenity Plan for details

Amenity Area B
- 21,143 SF
- Dog park and fire pits for community gathering (Please see Amenity Plan)

Central Paseo
- 6,121 SF
- Provides a central spine trail that connects amenity areas to promote walkability
- Enhanced with landscaping and special paving at crosswalks

Basin and Habitat Setback
- Stormwater basin for hydromodification and water quality treatment
- Habitat and planning setbacks to protect adjacent existing wetlands

Amenity Area C
- 10,502 SF
- Pickle Ball Courts, Barbecue area, open lawn for games and unstructured play (Please see Amenity Plan)

Secondary Access
- Emergency Vehicle Access Only
- Gated at the existing terminus of Malaga Drive

Project Summary

Property Size (Gross): 14.55 Acres

Developable Area (Net)[1]: 12.82 Acres

Development Pad Area: 10.23 Acres

No. of Units: 164 Three-Story Townhomes[2]
- (16) Plan 2532: 1210 SF, 2 bed., 2.5 baths, 2-car gar.
- (75) Plan 1633: 1497 SF, 3 bed., 2.5 baths, 2-car gar.
- (73) Plan 1636: 1791 SF, 4 bed., 2.5 baths, 2-car gar.

Density[3]: 12.8 du/ac

Proposed Setbacks:
- Front (To Monica/Macario Dr): 15' to building / 12' to patio
- Side (N and S Bndy): 74' Minimum
- Rear (E Bndy): 65' Minimum

Parking Required:
- Resident: 2 Spaces per Unit (1 covered)
- Guest Spaces: 1 + 20% of total units (34 spaces)

Parking Provided:
- Resident: Private 2-car garage per unit
- Guest Spaces[10]: 56 spaces

Open Space Required:
- Total: 300 SF per Unit x 164 = 49,200 SF
- Private Open Space minimum dimension of 5 feet
- At least 50% shall be Common = 24,600 SF
- At least two common area shall be 4,000 SF Min (or one at 8,000 SF Min); Minimum dimension of 20 feet

Open Space Provided:
- Total: 78,412 SF (478 SF per unit)
- Private OS (5' min): 24,500 SF
- Common Open Space (20' min; 8000 SF Min): 53,712 SF

Bldg Coverage: 3.21 AC. (22.1%)

Notes:
1. Excludes slopes surrounding the site in accordance with Section 3039 of the City of Oceanside Zoning Ordinance.
2. Type VB construction with NFPA 13D automatic sprinkler system.
3. Density based on Development Area.
4. Inclusionry housing requirement to be met through payment of in-lieu fee.
5. Existing General Plan/Zoning: CI/PS
6. Proposed General Plan: Medium Density B (10-15 du/ac)
7. Proposed Zoning: Planned Development
8. Coastal Zone: No
9. Assessor's Parcel Numbers: 157-070-42-00, 122-190-19-00, and 122-190-22-00
10. Guest Parking Spaces are 16' x 8.5' with 2' overhang; Includes 3 ADA Spaces that are 18' x 9'

North

0 50 100
1" = 50'

GPA22-00001/ZA22-00003/T22-00005/D22-00013

Conceptual Site Plan

MLC Holdings, Inc. Meritage Homes

Pacifica Elementary
Oceanside, Ca

03.29.2023
P-1

1.2 Report Organization

Following this introductory chapter, this report is organized into the following chapters:

2. Analysis Methodology – This chapter reviews the methods utilized to evaluate any LOS impacts associated with the implementation of the Proposed Project, as required by the City of Oceanside Traffic Impact Analysis Guidelines.
3. Project Traffic - This chapter describes the Proposed Project's land uses and associated trip generation. Additional information such as trip distribution patterns and project trip assignment are also included in this chapter, which is used to determine the project study area.
4. Existing Conditions – This chapter describes and evaluates the existing transportation network. Vehicular operations within the study area are evaluated. LOS analysis results are also provided for Existing and Existing with Project vehicular traffic conditions. Additionally, the Proposed Project's access to transit as well as pedestrian and bicycle facilities are evaluated. Recommendations are offered to enhance the experience and safety for both pedestrians and bicyclists.
5. Near-Term Year 2025 Conditions – This chapter describes near-term developments anticipated to generate additional study area trips and establishes a near-term baseline against which traffic generated by the Proposed Project can be compared to at the project opening day, assumed to be Year 2025. LOS analysis results are also provided for Near-Term Year 2025 Base and Near-Term Year 2025 Base with Project vehicular traffic conditions.
6. Horizon Year 2050 Conditions – This chapter describes projected long-range conditions of the transportation network within the study area. Horizon Year 2050 scenario analysis is required per the City's Traffic Impact Analysis Guidelines. LOS analysis results are also provided for Horizon Year 2050 and Horizon Year 2050 with Project vehicular traffic conditions.
7. LOS Impacts and Improvement Requirements - This chapter identifies any substandard facilities and provides improvement requirements to improve substandard facilities to acceptable LOS or pre-project conditions.
8. Site Access & Circulation – This chapter addresses access to the Proposed Project site and discusses the functionality of the Proposed Project's internal circulation.

2.0 Analysis Methodology

This study was performed in accordance with the standards and requirements in the City of Oceanside Traffic Impact Analysis Guidelines (August 2020). All analysis assumptions were documented within a scoping agreement memorandum, provided in **Appendix A**, and approved by the City of Oceanside. The following sections describe the analysis methods outlined in the Traffic Impact Analysis Guidelines to describe how transportation related impacts are analyzed and identified in relation to LOS. A transportation impact in relation to LOS is considered a non-CEQA transportation impact based on the City's Traffic Guidelines.

2.1 Level of Service (LOS) Definition

Level of Service (LOS) is a quantitative measure describing operational conditions within a traffic stream, and the motorist's and/or passengers' perception of operations. A LOS definition generally describes these conditions in terms of such factors as delay, speed, travel time, freedom to maneuver, interruptions in traffic flow, queuing, comfort, and convenience. **Table 2.1** describes generalized definitions of the various LOS categories (A through F) as applied to roadway operations.

Table 2.1 - LOS Definitions

LOS Category	Definition of Operation
A	This LOS represents a completely free-flow condition, where the operation of vehicles is virtually unaffected by the presence of other vehicles and only constrained by the geometric features of the highway and by driver preferences.
B	This LOS represents a relatively free-flow condition, although the presence of other vehicles becomes noticeable. Average travel speeds are the same as in LOS A, but drivers have slightly less freedom to maneuver.
C	At this LOS, the influence of traffic density on operations becomes marked. The ability to maneuver within the traffic stream is clearly affected by other vehicles.
D	At this LOS, the ability to maneuver is notably restricted due to traffic congestion, and only minor disruptions can be absorbed without extensive queues forming and the service deteriorating.
E	This LOS represents operations at or near capacity. LOS E is an unstable level, with vehicles operating with minimum spacing for maintaining uniform flow. At LOS E, disruptions cannot be dissipated readily thus causing deterioration down to LOS F.
F	At this LOS, forced or breakdown of traffic flow occurs, although operations appear to be at capacity, queues form behind these breakdowns. Operations within queues are highly unstable, with vehicles experiencing brief periods of movement followed by stoppages.

Source: Highway Capacity Manual 6th Edition

2.2 Roadway Segment LOS Standards and Thresholds

Roadway segment LOS standards and thresholds provide the basis for analysis of arterial roadway segment performance. The analysis of roadway segment LOS is based on the functional classification of the roadway, the maximum capacity, roadway geometrics, and existing or forecast Average Daily Traffic (ADT) volumes. **Table 2.2** displays roadway segment capacity standards found in the City's Traffic Impact Analysis Guidelines. The actual capacity of a roadway facility varies according to its physical attributes.

Table 2.2 - Roadway Segment Daily Capacity and LOS Standards

Street Classification	LOS/ADT Thresholds				
	A	B	C	D	E
Expressway (6-lane)	< 30,000	< 42,000	< 60,000	**< 70,000**	< 80,000
Expressway (4-lane)	< 25,000	< 35,000	< 50,000	**< 55,000**	< 60,000
Prime Arterial (6-lane)	< 25,000	< 35,000	< 50,000	**< 55,000**	< 60,000
Major Arterial (6-lane)	< 20,000	< 28,000	< 40,000	**< 45,000**	< 50,000
Major Arterial (5-lane)	< 17,500	< 24,500	< 35,000	**< 40,000**	< 45,000
Major Arterial (4-lane)	< 15,000	< 21,000	< 30,000	**< 35,000**	< 40,000
Secondary Collector (4-lane w/ two-way left-turn lane)	< 10,000	< 14,000	< 20,000	**< 25,000**	< 30,000
Secondary Collector (4-lane w/out two-way left-turn lane with turn pockets)	< 9,000	< 13,000	< 18,000	**< 22,000**	< 25,000
Collector (2-lane commercial fronting)	< 5,000	< 7,000	< 10,000	**< 13,000**	< 15,000
Collector (2-lane residential streets in Circulation Element)	< 4,000	< 5,500	< 7,500	**< 9,000**	< 10,000
Local Street (residential streets NOT in the Circulation Element)			<2,200[1]		

Source: City of Oceanside Traffic Impact Analysis Guidelines (August 2020)

Note:
[1] City's Circulation Element (September 2012)
Bold number indicates the ADT thresholds for acceptable LOS.

These standards are generally used as long-range planning guidelines to determine the functional classification of roadways. The actual capacity of a roadway varies according to its physical attributes. Typically, the performance and LOS of a roadway segment is heavily influenced by the ability of its intersections to accommodate peak hour traffic volumes. For the purposes of this traffic analysis, LOS D or better is considered acceptable for circulation element roadway segments.

2.3 Peak Hour Intersection LOS Standards and Thresholds

This section presents the methodologies used to perform peak hour intersection capacity analyses at signalized and unsignalized intersections within the study area. The following assumptions were utilized in conducting all intersection LOS analyses:

- Peak Hour Factor (PHF) – Field-collected PHF for Existing and Near-Term Year 2025 Base Conditions. A PHF of 0.95 was assumed for Horizon Year 2050 analysis.
- Lane Utilization Factor – HCM 6th Edition defaults were used for all scenarios.
- Conflicting Pedestrians/Bicycles – Existing pedestrian and bicycle counts are utilized for all scenarios.
- Signal Timing – Based on existing signal timing plans (as of October 2022), provided in **Appendix B**.

2.3.1 Signalized Intersections

The analysis of signalized intersections utilized the operational analysis procedure as outlined in the Highway Capacity Manual (HCM) 6th Edition signalized (Chapter 19) intersection analysis methodology. This method defines LOS in terms of delay, or more specifically, average stopped delay per vehicle. Delay is a measure of driver and/or passenger discomfort, frustration, fuel consumption and lost travel time. This technique uses 1,900 vehicles per hour per lane (VPHPL) as the maximum saturation volume of an intersection. This saturation volume is adjusted to account for lane width, on-street parking, pedestrians, traffic composition (i.e., percentage trucks) and shared lane movements (i.e., through and right-turn movements originating from the same lane). The LOS criteria used for the analysis of signalized intersections are described in **Table 2.3**, identifying the thresholds of control delays and the associated LOS. The computerized analysis of intersection operations was performed utilizing the Synchro Version 11 traffic analysis software by Trafficware Ltd.

Table 2.3 - Signalized Intersection LOS Operational Analysis Method

Average Stopped Delay Per Vehicle (Seconds)	LOS Characteristics
<10	LOS A describes operations with very low delay. This occurs when progression is extremely favorable, and most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
>10– 20	LOS B describes operations with generally good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
>20 – 35	LOS C describes operations with higher delays, which may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
>35– 55	LOS D describes operations with high delay, resulting from some combination of unfavorable progression, long cycle lengths, or high volumes. The influence of congestion becomes more noticeable, and individual cycle failures are noticeable.
>55 – 80	LOS E is considered the limit of acceptable delay. Individual cycle failures are frequent occurrences.
>80	LOS F describes a condition of excessively high delay, considered unacceptable to most drivers. This condition often occurs when arrival flow rates exceed the LOS D capacity of the intersection. Poor progression and long cycle lengths may also be major contributing causes to such delay.

Source: Highway Capacity Manual 6th Edition

2.3.2 Unsignalized Intersections

Unsignalized intersections were analyzed using the Highway Capacity 6th Edition side-street stop (Chapter 20) and all-way stop (Chapter 21) intersection analysis methodology. The computerized analysis of intersection operations was performed utilizing the Synchro Version 11 traffic analysis software by Trafficware Ltd.

LOS was determined as follows:

- All-way stop intersections: Reported for the entire intersection as an average value
- Side-street stop intersections: Reported for the worst-case movement

The LOS criteria used for the analysis of unsignalized intersections are described in **Table 2.4**.

Table 2.4 - LOS Criteria for Stop-Controlled Unsignalized Intersections

Average Stopped Delay Per Vehicle (Seconds)	LOS
0 – 10	A
>10 – 15	B
>15 – 25	C
>25 – 35	D
>35 – 50	E
> 50	F

Source: Highway Capacity Manual 6th Edition

2.4 Determination of Project Study Area

Per the City's Traffic Impact Analysis Guidelines, the study area was defined using the following criteria:

- All signalized intersections and signalized project driveways where the project will add 50 or more peak hour (final cumulative) trips in either direction
- All unsignalized intersections and unsignalized project driveways where the project will add 50 or more peak hour (final cumulative) trips in either direction
- All freeway ramp intersections where the project will add 20 or more peak hour (final cumulative) trips in either direction

2.5 City of Oceanside LOS Standards

Per the City's Circulation Element, LOS D or better is considered acceptable for study roadway segments and intersections. The Traffic Impact Analysis Guidelines provides the following thresholds to determine if the Proposed Project is required to provide improvements for study area facilities:

- Implementation of the Proposed Project triggers a roadway segment operating at acceptable LOS to operate at unacceptable LOS or increases the V/C ratio for a study roadway segment that is already operating at unacceptable LOS by more than 0.02.
- Implementation of the Proposed Project triggers an intersection operating at acceptable LOS to operate at unacceptable LOS or increases the average delay for a study intersection that is already operating at unacceptable LOS by more than 2.0 seconds.

Improvements should be identified to increase performance to acceptable or pre-project conditions under each scenario. Improvements should be considered as follows on a case-by-case basis:

- Improvements should be consistent with the General Plan
- Improvements for transit, bike, and pedestrian facilities should be given priority in Transit Priority Areas or Smart Growth Opportunity Area as identified by SANDAG
- Projects in Transit Priority Areas or Smart Growth Opportunity Area as identified by SANDAG, that are consistent with the General Plan at the time of project application, should not be denied due to the inability to provide roadway improvements (i.e., existing right of way is constrained, etc.)

3.0 Project Traffic

This chapter describes the Proposed Project including the Proposed Project's trip generation, trip distribution patterns, and project trip assignment.

3.1 Project Trip Generation

Per the City's Traffic Impact Analysis Guidelines, trip generation rates were derived from the SANDAG's (not so) Brief Guide to Vehicular Traffic Generation Rates for the San Diego Region (April 2002). **Table 3.1** displays the projected daily, as well as AM and PM peak hour, project trip generation.

Table 3.1 - Project Trip Generation

Land Use	Units	Trip Rate	ADT	AM Peak Hour					PM Peak Hour				
				%	Trips	Split	In	Out	%	Trips	Split	In	Out
Multi-Family (6-20 DU/acre)	164 DU	8/DU	1,312	8	105	2:8	21	84	10	132	7:3	92	40

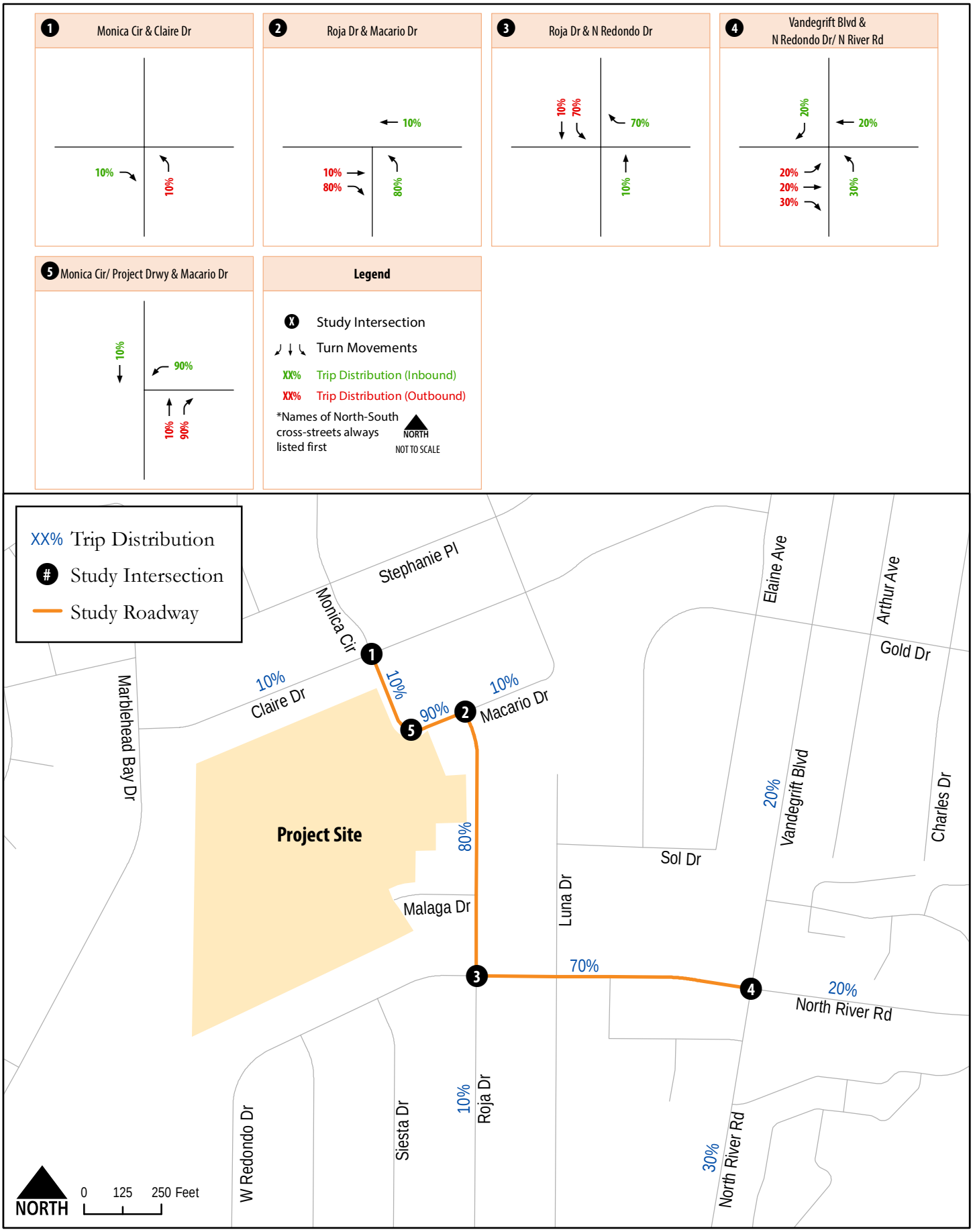
Source: SANDAG (not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002)

Notes:
ADT = Average Daily Traffic
DU = Dwelling Unit

As shown, the Proposed Project is anticipated to generate 1,312 daily trips, including 105 trips (21-in/84-out) during the AM peak hour and 132 (92-in/40-out) trips during the PM peak hour.

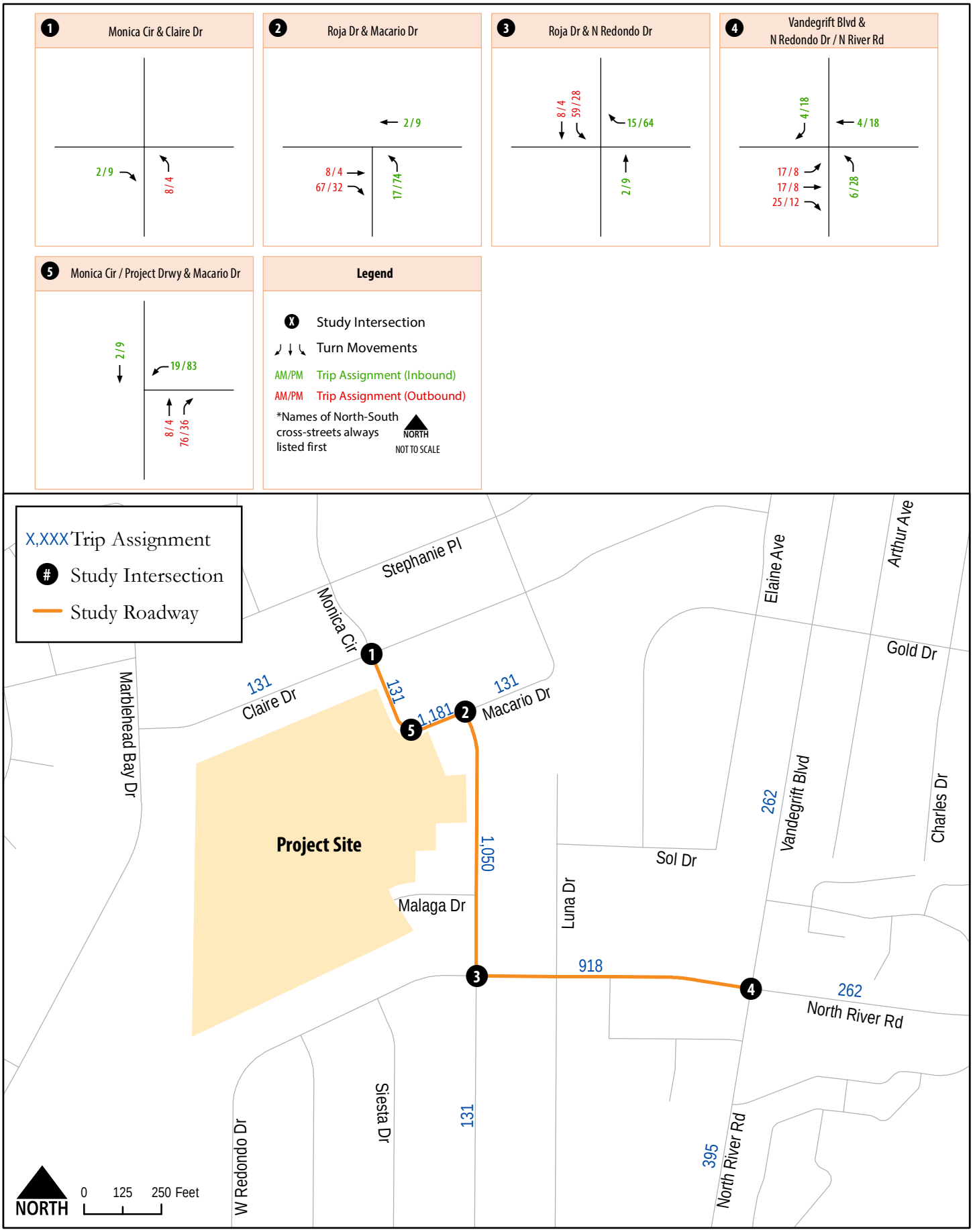
3.2 Project Trip Distribution and Assignment

The project trip distribution was manually developed based on the geographical location of the Project, as well as the characteristics of the proposed and surrounding land uses. **Figure 3.1** displays the regional trip distribution for the Proposed Project. Based upon the project trip distribution patterns, AM/PM peak hour project trips were assigned to the adjacent roadway network. **Figure 3.2** displays the Proposed Project's intersection trip assignment.



Pacifica Housing Project
Local Transportation Study

Figure 3.1
Project Trip Distribution



Pacifica Housing Project
Local Transportation Study

Figure 3.2
Project Trip Assignment

3.3 Project Study Area

Based on the criteria previously outlined in Chapter 2.4, the project trip assignment shown in Figure 3.2, and preliminary project scoping with City of Oceanside, the following four (4) roadway segments and five (5) intersections were included for analysis:

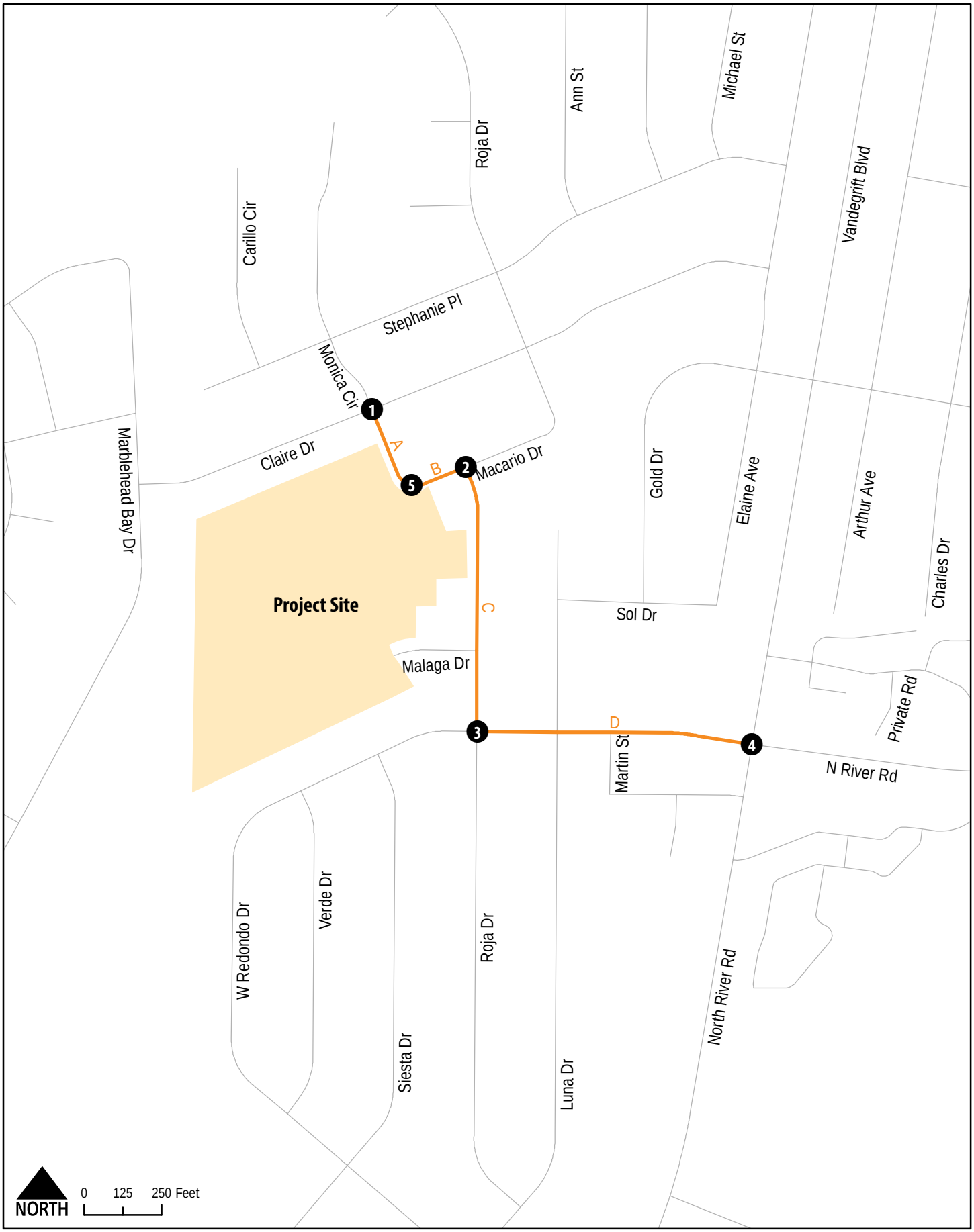
Roadway Segments

A. Monica Circle, between Claire Drive and Macario Drive
B. Macario Drive, between Monica Circle and Roja Drive
C. Roja Drive, between Macario Drive and North Redondo Drive
D. North Redondo Drive, between Roja Drive and North River Road

Intersections

1. Monica Circle & Claire Drive (Side-Street Stop-Controlled)
2. Roja Drive & Macario Drive (All-Way Stop-Controlled)
3. Roja Drive & North Redondo Drive (Side-Street Stop-Controlled)
4. Vandergrift Boulevard & North Redondo Drive/North River Road (Signal)
5. Monica Circle/Project Driveway & Macario Drive (Side-Street Stop-Controlled)

Figure 3.3 displays the overall project study area.



Pacifica Housing Project
Local Transportation Study

Figure 3.3
Project Study Area

4.0 Existing Conditions

This chapter provides a qualitative description of the transportation facilities located in the Proposed Project study area. An LOS analysis of the existing operations of the local transportation network facilities is also provided for study roadway segments and intersections.

4.1 Existing Transportation Network

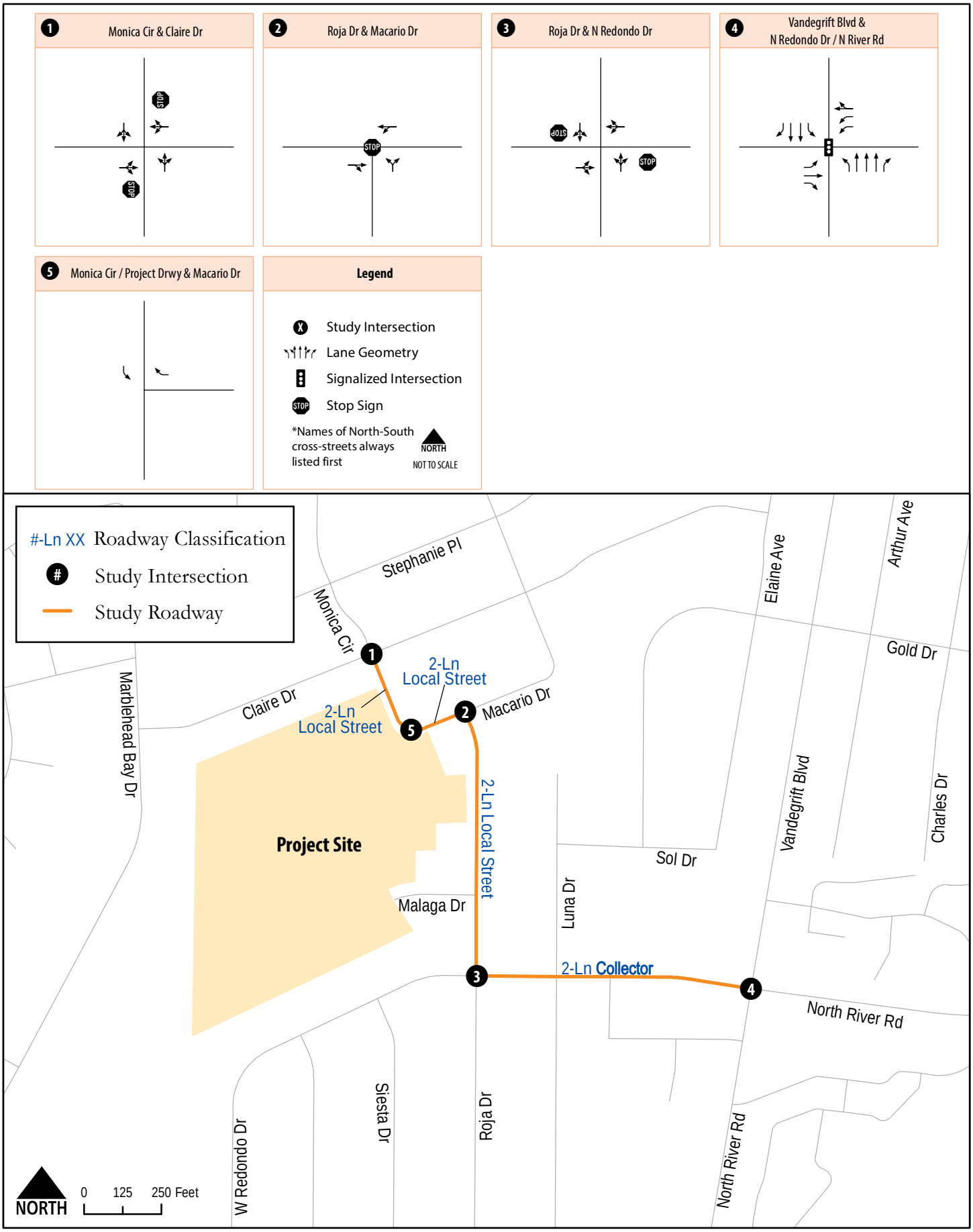
Access to the Proposed Project from the regional transportation network will be provided via California State Route 76 (SR-76) highway, North River Road, North Redondo Drive, Roja Drive, Monica Circle, and Macario Drive. These facilities will either provide a direct connection to Proposed Project, via project driveway, or will provide a critical link between the Proposed Project and the regional transportation network. **Table 4.1** summarizes the existing physical characteristics of roadways within the study area, while **Figure 4.1** displays the roadway classifications and study intersection geometrics under Existing Conditions.

Table 4.1 - Existing Transportation Network Characteristics

Roadway	From	To	Number of Lanes	Curb to Curb Distance	Median Type	Roadway Classification[1]	Sidewalk?	Bike lanes?	Transit Route	Posted Speed Limit
Monica Circle	Claire Drive	Macario Drive	1 NB/1 SB	35'	Undivided	Local Street	Both Sides	None	None	25 MPH
Macario Drive	Monica Circle	Roja Drive	1 EB/1 WB	39'	Undivided	Local Street	Both Sides	None	None	25 MPH
Roja Drive	Macario Drive	North Redondo Drive	1 NB/1 SB	36'	Undivided	Local Street	Both Sides	None	None	25 MPH
North Redondo Drive	Roja Drive	Vandegrift Boulevard/North River Road	1 EB/1 WB	47'	Undivided	Local Street	Both Sides	None	None	25 MPH
Vandegrift Boulevard	Gold Drive	North Redondo Drive	3 NB/2 SB	88'	Raised	Major Arterial	Both Sides	Class II	309 311 315	50 MPH
North River Road	North Redondo Drive	College Boulevard	3 NB/2 SB	82'	Raised	Major Arterial	Both Sides	Class II	303 309 313 315	45 MPH
North River Road	East of Vandegrift Boulevard		2 EB/2 WB	72'	Raised	Collector Road	Both Sides	Class II	303 309 311 313 315	45 MPH

Source: CR Associates (2023)

Note:
[1] Per the City's Circulation Element
Local Street = Residential streets NOT in the Circulation Element



Pacifica Housing Project
Local Transportation Study

Figure 4.1
Roadway Classification and Intersection Geometrics
Existing Conditions

4.2 Active Transportation

This section discusses the project site's active transportation modes.

4.2.1 Transit Access

The project site is within one half mile of the transit lines serviced by North County Transit District (NCTD) described below:

- Bus Route 303 – This bus route is serviced along North River Road in the northbound/southbound direction within the project study area. Nearest bus stop within a half mile are located at the San Luis Rey Transit Center. This bus route connects the Oceanside Transit Center, the San Luis Rey Transit Center, and the Vista Transit Center. The route operates at 15-minute headways on weekdays and weekends.
- Bus Route 309 – This bus route is serviced along Vandegrift Boulevard and North River Road in the northbound/southbound direction within the project study area. Nearest bus stops within a half mile are located at the Vandegrift Boulevard & Gold Drive intersection as wells as the San Luis Rey Transit Center. This bus route connects the San Luis Rey Transit Center, the El Camino Real Sprinter Station, the Plaza Camino Real Transit Center, and the Encinitas Station. The route operates at 30-minute headways throughout the week.
- Bus Route 311 – This bus route is serviced along Vandegrift Boulevard in the northbound/southbound direction within the project study area. Nearest bus stops within a half mile are located at the Vandegrift Boulevard & Gold Drive intersection as wells as the San Luis Rey Transit Center. This bus route connects the San Luis Rey Transit Center and the Rancho Del Oro Sprinter station. The route operates at 20 to 30-minute headways during morning peak hours and one-hour headways during evening peak hours Monday through Friday. This route does not operate on weekends.
- Bus Route 313 – This bus route is serviced along North River Road in the northbound/southbound direction within the project study area. Nearest bus stop within a half mile are located at the San Luis Rey Transit Center. This bus route connects the Oceanside Transit Center and the San Luis Rey Transit Center. The route operates on one-hour headways Monday through Friday and does not operate on the weekends.
- Bus Route 315 – This bus route is serviced along Vandegrift Boulevard and North River Road in the northbound/southbound direction within the project study area. Nearest bus stops within a half mile are located at the Vandegrift Boulevard & Gold Drive intersection as wells as the San Luis Rey Transit Center. This bus route connects the San Luis Rey Transit Center, the Plaza Camino Real Transit Center, and the Carlsbad Village Station. The route operates at 60-minute headways throughout the week.

Bus route schedules are provided in **Appendix C.** An inventory of amenities present at each stop within a half mile was collected. **Table 4.2** identifies the amenities provided at each transit stop.

Table 4.2 - Transit Amenities

Stop ID	Stop Name	Bench	Shelter	Bus Stop Sign	ADA Accessible Pad	Connection to Adjacent Sidewalk	Trash Receptacle	Lighting	Bicycle Parking	Transit Route Information	Shading Elements	Transit System Information
-	San Luis Rey Transit Center	●	●	●	●	●	●	●	●			
21592	Vandegrift Bl / Gold Dr (northbound)			●	●	●	●	●			●	
21114	Vandegrift Blvd / Gold Dr (southbound)	●		●	●	●	●	●				

Source: CR Associates (2023)

Based on the preliminary review of the Proposed Project's site plan, the Proposed Project would not conflict with existing or planned transit facilities and would not result in any impacts to transit facilities.

4.2.2 Bicycle

Under Existing conditions, Class II bicycle facilities exist along Vandegrift Boulevard and North River Road. Per the City of Oceanside Bicycle Master Plan (2017 Update), there are no planned bicycle facilities improvements within the project study area. Based on the preliminary review of the Proposed Project's site plan, the Proposed Project would not conflict with existing bicycle facilities and would not result in any impacts to bicyclist safety and accessibility.

4.2.3 Pedestrian

Sidewalks are present along both sides of the roadway for all roadways within a half mile walking distance from the project side. These existing pedestrian facilities are mostly surrounded with single family residential land uses with exception to the commercial land use fronting North Redondo Drive and Vandegrift Boulevard.

Sidewalks are proposed along the project frontage along Monica Circle and Macario Drive. Sidewalks are also proposed throughout the internal roadways providing direct access to the dwelling units as well as on-site amenities (pet station, play areas, picnic pavilion, benches, and gardens).

Based upon review of the project site plan, the following recommendations are provided:

- Curb ramps at the project driveways are recommended to be reconstructed, if needed, with detectable surface warning tactiles (yellow truncated domes) as well as meeting all ADA requirements
- Existing cross-walks or other pedestrian features along the project frontage should be maintained or improved to City standards
- To improve first/last-mile connection to the nearest transit stop, crosswalks (or high-visibility crosswalks) are recommended at the following intersection:
    - Vandegrift Boulevard and North Redondo Drive / North River Road – all legs

With implementation of the recommendation listed above, the overall pedestrian environment should be enhanced for both walkability and safety and would not result in any impacts to pedestrian facilities.

4.3 Existing Intersection Volumes

The study area intersections and roadway traffic counts were conducted on September 27, 2022, by Counts Unlimited, Inc. However, it is important to note that the daily traffic counts at two locations (Monica Circle from Claire Drive to Macario and Roja Drive from Macario Drive to North Redondo Drive) had to be collected on October 4, 2022 as the pneumatic tubes utilized for the traffic counts that were set up on September 27, 2022 had been tampered with and data was compromised. **Figure 4.2** displays both existing daily traffic volumes for study area roadway segments and the AM/PM peak hour turning movements for the study intersections. Traffic count worksheets are provided in **Appendix D**.

4.4 Existing Traffic Conditions

LOS analyses under Existing Conditions were conducted using the methodologies described in Chapter 2. Roadway segment and intersection LOS analysis results are discussed below.

4.4.1 Roadway Segment Analysis

Table 4.3 displays roadway segments and LOS analysis results for study roadway segments under Existing conditions.

Table 4.3 - Roadway Segment LOS Results – Existing Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	LOS	Daily Volume	V/C
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,487	0.676
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,487	0.676
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,267	1.030
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,491	0.599

Source: CR Associates (2023)

Note:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity

As shown in Table 4.3, all study roadway segments currently operate at LOS C or better under Existing Conditions with the exception of the following roadway segment:

- Roja Drive, between Macario Drive and North Redondo Drive (Above Capacity)

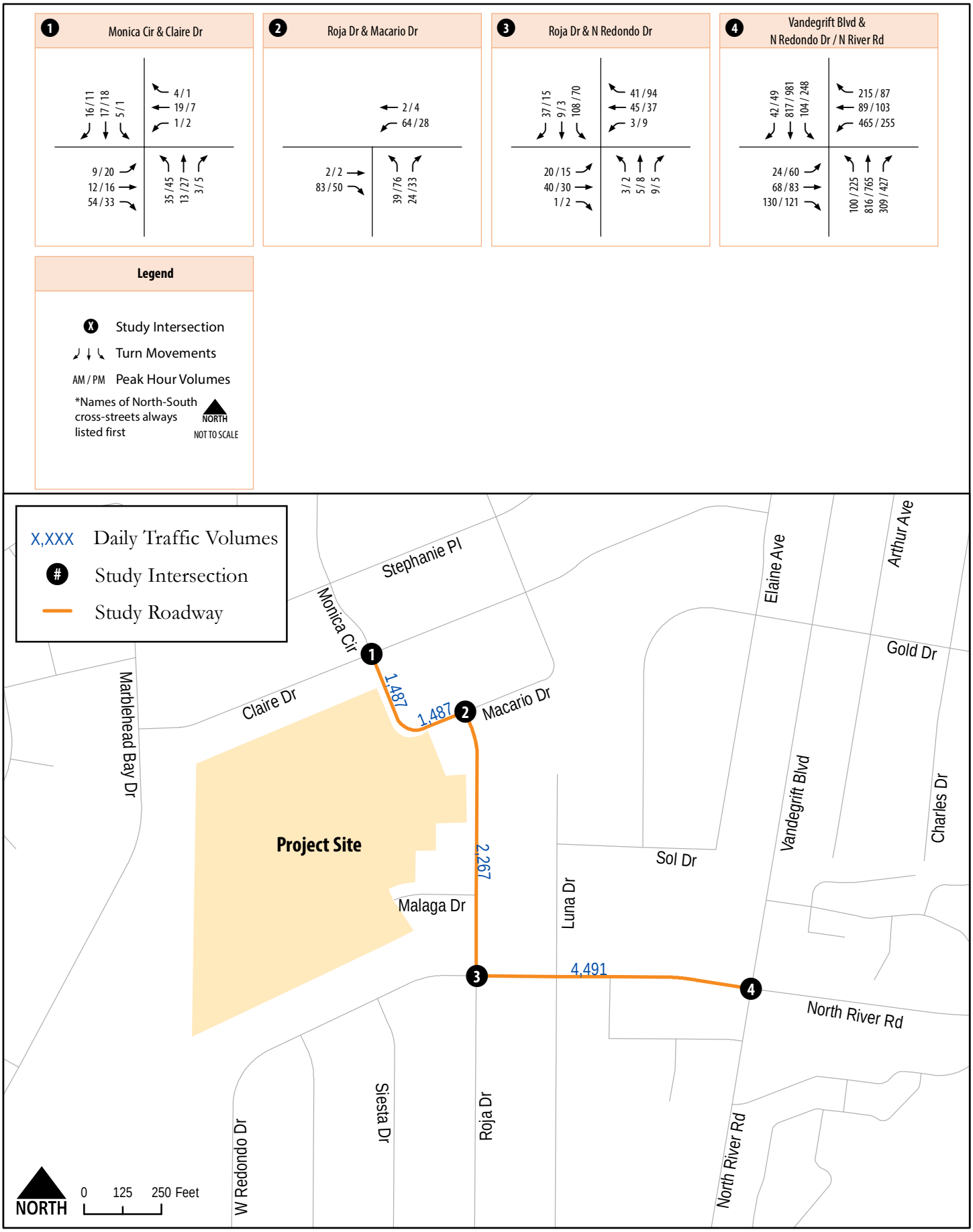


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Figure 4.2
Traffic Volumes
Existing Conditions

4.4.2 Intersection Analysis

Table 4.4 displays intersection LOS and average vehicle delay results for the key study area intersections under Existing Conditions. LOS calculation worksheets for Existing Conditions are provided in **Appendix E**.

Table 4.4 - Peak Hour Intersection LOS Results – Existing Conditions

#	Intersection	Control Type	AM Peak Hour		PM Peak Hour	
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1	Monica Circle & Claire Drive	SSSC	10.0	B	10.1	B
2	Roja Drive & Macario Drive	AWSC	7.5	A	7.5	A
3	Roja Drive & N. Redondo Drive	SSSC	12.2	B	10.7	B
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	36.3	D	42.6	D

Source: CR Associates (2023)

Note:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC= All-Way Stop Controlled

As shown in Table 4.4, all study area intersections currently operate at acceptable LOS D or better under Existing Conditions.

4.5 Existing with Project Roadway Network and Traffic Volumes

Intersection geometrics under the Existing with Project conditions were assumed to be identical to the Existing conditions geometrics with exception to the following project feature:

- Enhancement of existing driveway, on the south leg of the Monica Circle and Macario Drive intersection, with special paving, landscaping, and monumentation to announce entry to the project site. This project driveway will provide the only access point to the project site which will function as a side-street stop-controlled intersection with full access.

Peak hour intersection volumes for the Existing with Project conditions were derived by combining the Proposed Project trips (as previously shown in Figure 3.2) to the Existing traffic volumes (as previously shown in Figure 4.2). Peak hour intersection volumes for this scenario are displayed in **Figure 4.3**.

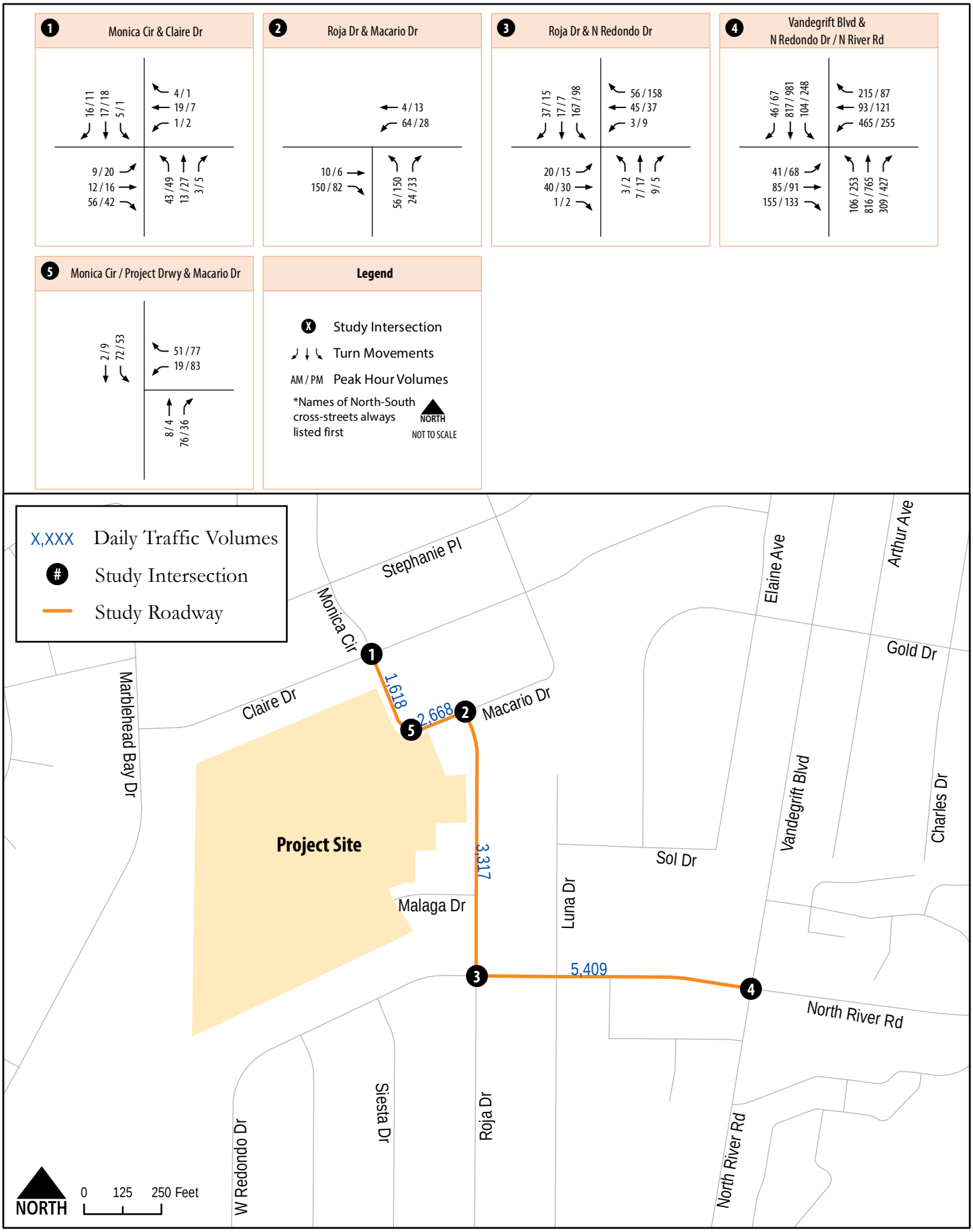

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Figure 4.3
Traffic Volumes
Existing with Project Conditions

4.6 Existing with Project Traffic Conditions

LOS analyses under Existing with Project conditions were conducted using the methodologies described in Chapter 2. Roadway segment and intersection LOS analysis results are discussed below.

4.6.1 Roadway Segment Analysis

Table 4.5 displays roadway segments and LOS analysis results for study roadway segments under Existing with Project conditions.

As shown in Table 4.5, the following study roadway segments are projected to operate above capacity under Existing with Project conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

4.6.2 Intersection Analysis

Table 4.6 displays intersection LOS and average vehicle delay results for the key study area intersections under Existing with Project Conditions. LOS calculation worksheets for Existing with Project conditions are provided in **Appendix F**.

As shown in Table 4.6, all study area intersections are projected to operate at acceptable LOS D or better under Existing with Project conditions. Therefore, no study intersections are anticipated to degrade in LOS to unacceptable levels with implementation of the Proposed Project and no improvements will be required.

Table 4.5 - Roadway Segment LOS Results – Existing with Project Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	Existing			Existing + Project			ΔV/C	I?
				LOS	Daily Volume	V/C	LOS	Daily Volume	V/C		
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,487	0.676	C	1,618	0.735	0.059	N
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,487	0.676	Above Capacity[1]	2,668	1.213	0.537	N
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,267	1.030	Above Capacity[1]	3,317	1.508	0.478	N
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,491	0.599	B	5,409	0.721	0.122	N

Source: CR Associates (2023)

Notes:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity
I? = Improvement Required?

Table 4.6 - Peak Hour Intersection LOS Results – Existing with Project Conditions

#	Intersection	Control Type	Existing Conditions				Existing + Project							
			AM Peak Hour		PM Peak Hour		AM Peak Hour				PM Peak Hour			
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Δ	I?	Avg. Delay (sec.)	LOS	Δ	I?
1	Monica Circle & Claire Drive	SSSC	10.0	B	10.1	B	10.1	B	0.1	N	10.2	B	0.1	N
2	Roja Drive & Macario Drive	AWSC	7.5	A	7.5	A	7.8	A	0.3	N	8.3	A	0.8	N
3	Roja Drive & N. Redondo Drive	SSSC	12.2	B	10.7	B	14.4	B	2.2	N	11.7	B	1.0	N
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	36.3	D	42.6	D	37.3	D	1.0	N	43.9	D	1.3	N
5	Monica Circle / Project Driveway & Macario Drive	SSSC	Does not Exist				8.6	A	8.6	N	8.5	A	8.5	N

Source: CR Associates (2023)

Notes:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC = All-Way Stop Controlled
I? = Improvement Required?

5.0 Near-Term Year 2025 Conditions

This section provides an analysis of Near-Term Year 2025 Base traffic conditions both with and without the Proposed Project. The scenarios analyzed in this section include:

- Near-Term Year 2025 Base
- Near-Term Year 2025 Base with Project

The following section describes near-term developments anticipated to generate additional study area trips and establishes a near-term baseline against which traffic generated by the Proposed Project can be compared to at the project opening day, assumed to be Year 2025. The Near-Term Year 2025 Base scenario traffic volumes is the sum of existing traffic volumes and trips generated by cumulative projects with the study area.

5.1 Cumulative Project Traffic

The following twelve (12) projects were identified by City of Oceanside staff as cumulative projects, since they are anticipated to contribute traffic within the project study area by the Proposed Project's opening year:

1. Riverview Springs (ZA16-00009) – This project is located at 4398 Rainier Way, Oceanside, CA 92058. This project proposes to construct an additional 47 dwelling units to the existing development.
2. Nagata Kawano Property Rezone (GPA13-00001 and GPA13-00004) – This project is located at 4617 and 4665 North River Rd, Oceanside, CA 92057. This project proposes to construct 400 multi-family residential dwelling units.
3. North River Farms (GPA16-00002) – This project is located along North River Road on parcels located on both the north and south side of the roadway between Stallion Drive and Wilshire Road. This project proposes to construct 689 dwelling units, a mix comprising of both multi-family and single family detached, as well as 25,000 square feet of commercial land use, 5,000 square feet of restaurant land use, a 30-acre farm, and a 100-room hotel. This project was approved with a maximum of 585 dwelling units, however, this LTS assumes 689 dwelling units to be consistent with the traffic study completed for North River Farms. Therefore, the analysis provided within this LTS is considered to be conservative.
4. Cannabis Cultivation (CUP19-00023) – This project is located the north side of North River Road approximately 715 feet east of Wilshire Road. This project proposes to develop a cannabis cultivation and nursery facility composed of four 22,000 square feet greenhouses on a 10.41-acre parcel.
5. Cannabis Cultivation (CUP19-00025) – This project is located at the northeast quadrant of the Sleeping Indian Road and North River Road intersection. This project proposes to develop a cannabis cultivation and nursery facility composed of twenty 22,000 square feet greenhouses on a 52.54-acre parcel.
6. El Corazon – This project is located at the northwest quadrant of the Rancho Del Oro Road and Oceanside Boulevard intersection. This project proposes to develop a variety of land uses in six separate phases which include the following: senior center (6.0 acres), hotel

(11.0 acres), village commercial (19.0 acres), green waste facility (16.0 acres), soccer facility (55.3 acres), softball complete (12.5 acres), baseball complex (15.7 acres), cultural/community center and library (6.0 acres), park and passive recreation areas (52.8 acres), recreation center (6.8 acres), park-recreation areas (12.8 acres), expansion of the park (19.7 acres), park expansion and public safety center (16.0 acres), interpretive areas, and passive trails.

7. Ocean Kamp Project (T19-00004) – This project is located along Foussat Street on parcels located on both the west and east side of the roadway between the San Luis Rey River and SR-76 highway. This project proposes to develop 700 multi-family residential dwelling units, a 300-room resort hotel, 126,000 square feet of retail and commercial uses, and a wave lagoon.
8. Modera Melrose Mixed-Use Development Project (D21-00011) - The project site is located at the southeast corner of Melrose Drive and West Bobier Drive in the east-central portion of the City of Oceanside. The project proposes to develop a mixed-use infill project which would include 323 multi-family residential units and ground-level commercial space on the 7.4-acre project site. The proposed residential development would include 33 affordable/very low-income rental units and 290 market rate rental units ranging from 666 square feet to 1,429 square feet.
9. Rio Rockwell (GPA18-00001) – This project site is located at the northeast corner of Old Grove Road and Frazee Road. The project proposes a rezone to allow for the construction of 78 new townhomes.
10. Cypress Point (T21-00001) – This project is located west of Los Arbolitos Boulevard, at the intersection of Aspen Street and Pala Road. The project proposes to develop 54 single-family homes on the 7.3-acre project site.
11. Guajome Lake Road Subdivision (T22-00004) – This project site is located at 2837 Guajome Lake Road. The project proposes 84 single-family homes on approximately 10.1 acres of the 16.7-acre project site.
12. Sunrise Assisted Care Facility (P20-00001) – This project site is located at 4700 Mesa Drive. The project proposes a 95 unit, 120 bed, 78,100 square foot senior living and memory care facility.

The traffic generated from the project listed above was included in the Near-Term Year 2025 Base scenario. **Figure 5.1** displays the location of the cumulative projects identified above.

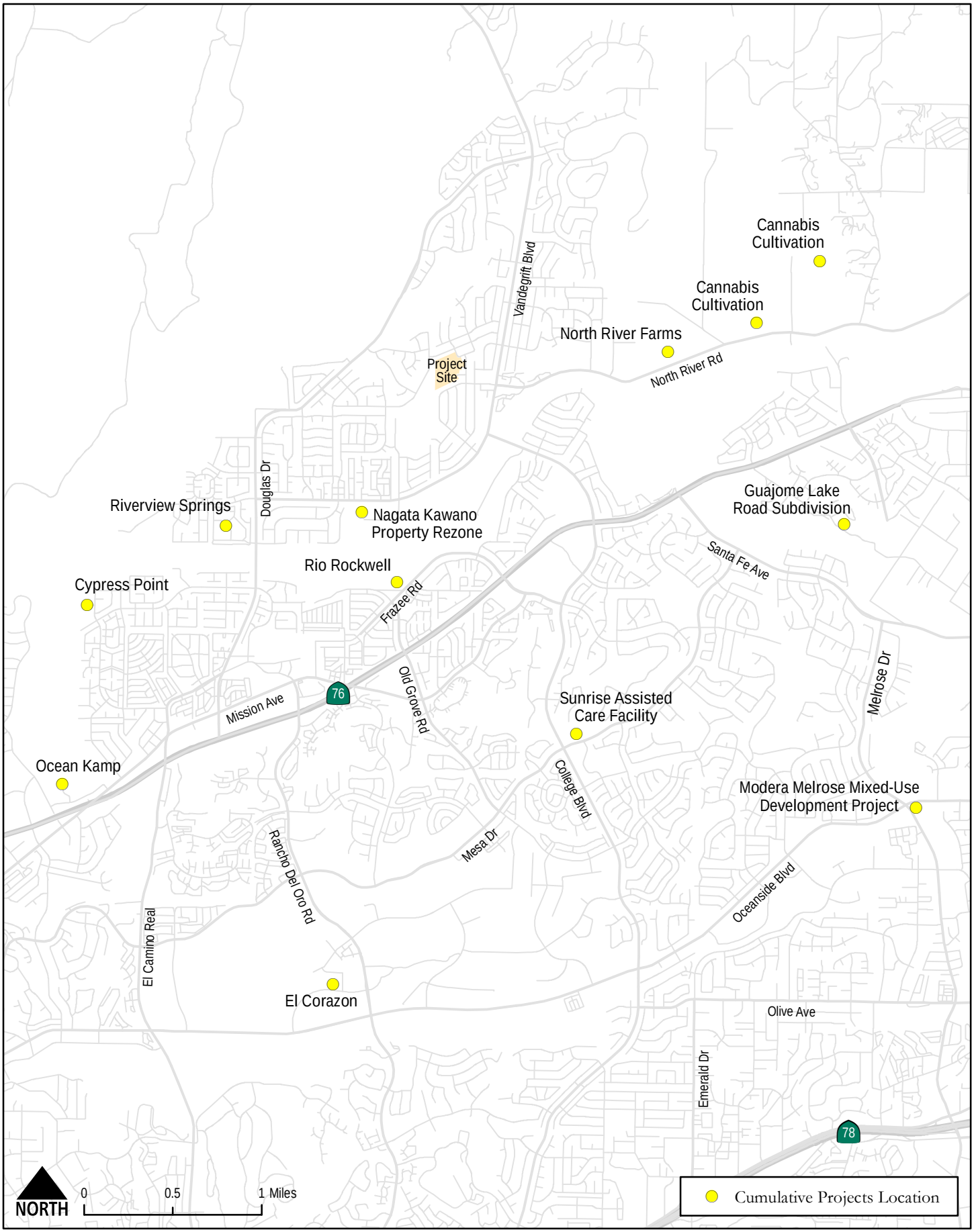

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Figure 5.1
Cumulative Projects Location

5.2 Cumulative Project Trip Generation

Table 5.1 displays the projected trip generation for the cumulative projects described above. Cumulative project traffic was assigned to the project study area as identified within their respective traffic studies provided by the City of Oceanside. Cumulative project traffic without completed traffic studies were assigned to the project study area utilizing the same methodology used for the Proposed project described in Chapter 3.0, consistent with the City's Traffic Impact Analysis Guidelines. Relevant excerpts from the source of information regarding the cumulative project are provided in Appendix G.

As shown, the cumulative projects are anticipated to generate 65,441 daily trips, including 3,641 trips during the AM peak hour and 6,386 trips during the PM peak hour that will be dispersed throughout the Oceanside community and beyond the Proposed Project's study area. Figure 5.2 displays the cumulative project trip assignment. It should be noted that all vehicle trips generated by the majority cumulative projects listed above are anticipated to only travel through the Vandegrift Boulevard and N. Redondo Drive study intersection (#4).

Table 5.1 - Cumulative Project Trip Generation

Cumulative Project	Land Use	Daily Trips	AM Peak Hour (In/Out)	PM Peak Hour (In/Out)
Riverview Springs (ZA16-00009)	Multi-Family	376	31 (6-in/25-out)	38 (27-in/11-out)
Nagata Property Rezone (GPA13-00004)[1]	Multi-Family	3,200	256 (51-in/205-out)	320 (224-in/96-out)
North River Farms (GPA16-00002[2]	Multi-Family Single Family Detached Commercial Restaurant Farm Hotel	7,921	562 (166-in/396-out)	777 (515-in/262-out)
Cannabis Cultivation (CUP19-00023)[3]	Cannabis Cultivation and Nursery Facility	586	304 (282-in/22-out)	282 (79-in/203-out)
Cannabis Cultivation (CUP19-00025)[3]	Cannabis Cultivation and Nursery Facility	117	61 (56-in/5-out)	56 (15-in/41-out)
El Corazon (Multiple Project #'s)[4]	Variety Land Uses	29,614	1,010 (592-in/418-out)	2,944 (1,483-in/ 1,461-out)
Ocean Kamp Project (T19-00004)[5]	Multi-Family Retail/Commercial Resort Hotel Wave Lagoon	19,040	1,057 (453-in/604-out)	1,532 (902-in/630-out)
Modera Melrose Mixed-Use Development Project[6]	Multi-Family Commercial	2,038	159 (33-in/126-out)	183 (127-in/56-out)
Rio Rockwell[7]	Multi-Family	932	75 (19-in/56-out)	93 (65-in/28-out)
Cypress Point[8]	Single Family Homes	540	42 (13-in/29-out)	53 (37-in/16-out)
Guajome Lake Road Subdivision[9]	Single Family Homes	830	66 (20-in/46-out)	83 (58-in/25-out)
Sunrise Assisted Care Facility[10]	Assisted Care Facility	247	18 (11-in/7-out)	25 (10-in/15-out)
Cumulative Total		**65,441**	**3,641 (1,702-in/ 1,939-out)**	**6,386 (3,542-in/ 2,844-out)**

Source: SANDAG (not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002

Notes:
[1] Trip generation obtained from the Tierra Norte Residential Development Plan DRAFT Local Transportation Study prepared by LOS Engineering, Inc. (January 19, 2022)
[2] Trip generation obtained from the North River Farms Transportation Impact Analysis prepared by LLG Engineers (November 8, 2018). This project was approved with a maximum of 585 dwelling units, however, this LTS assumes 689 dwelling units to be consistent with the traffic study completed by LLG Engineers. Therefore, the analysis provided within this LTS is considered to be conservative.
[3] Trip Generation based on ITE Trip Generation Manual, 11th Edition – Land Use Code 190 – Marijuana Cultivation and Processing Facility
[4] Trip generation obtained from the El Corazon Traffic Impact Analysis prepared by LLG Engineers (July 1, 2008)
[5] Trip generation obtained from the Ocean Kamp Project Local Transportation Study prepared by LLG Engineers (July 14, 2021)
[6] Trip generation obtained from the Modera Melrose Local Transportation Study prepared by LLG Engineers (April 8, 2022)
[7] Trip generation obtained from the Oceanside Rio Rockwell Project Traffic Impact Analysis prepared by LLG Engineers (June 5, 2020)
[8] Trip generation obtained from the Concordia Collection at Cypress Point Local Transportation Assessment prepared by LLG Engineers (May 2021)
[9] Trip generation obtained from the Guajome Lake 83 Lot Subdivision Local Transportation Assessment prepared by LOS Engineering, INC. (November 18, 2022)
[10] Trip generation obtained from the Sunrise of Oceanside Transportation Impact Study prepared by LLG Engineers (September 25, 2020)

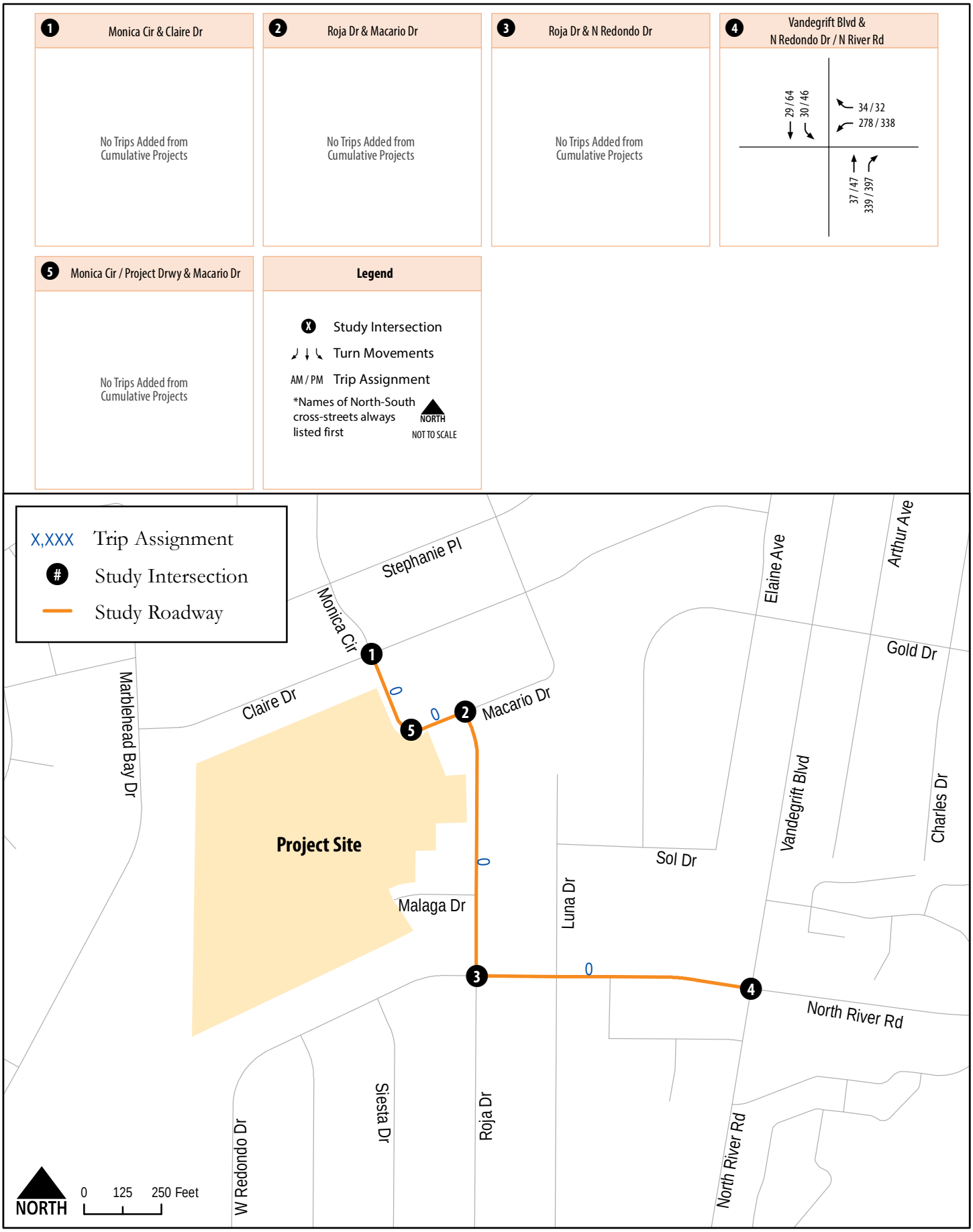

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Figure 5.2
Cumulative Project Trip Assignment

5.3 Near-Term Year 2025 Base Roadway Network and Traffic Volumes

Study area roadway and intersection geometrics under Near-Term Base conditions were assumed to be identical to the existing roadway geometrics, as shown in Figure 4.1. The Near-Term Base scenario traffic volumes were derived by adding the additional trips generated by the cumulative projects listed in Section 5.1 (Figure 5.2) to the existing traffic volumes (Figure 4.2). **Figure 5.3** displays the average daily roadway and peak hour intersection volumes for the study roadway segments and intersections under the Near-Term Base conditions.

5.4 Near-Term Year 2025 Base Traffic Conditions

LOS analyses under Near-Term Year 2025 Base Conditions were conducted using the methodologies described in Chapter 2. Roadway segment and intersection LOS analysis results are discussed below.

5.4.1 Roadway Segment Analysis

Table 5.2 displays roadway segments and LOS analysis results for study roadway segments under Near-Term Year 2025 Base conditions.

Table 5.2 - Roadway Segment LOS Results – Near-Term Year 2025 Base Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	LOS	Daily Volume	V/C
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,490	0.677
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,490	0.677
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,270	1.032
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,500	0.600

Source: CR Associates (2023)

Note:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity

As shown in Table 5.2, all study roadway segments are projected to operate at LOS C or better under Near-Term Year 2025 Conditions with the exception of the following roadway segment:

- Roja Drive, between Macario Drive and North Redondo Drive (Above Capacity)

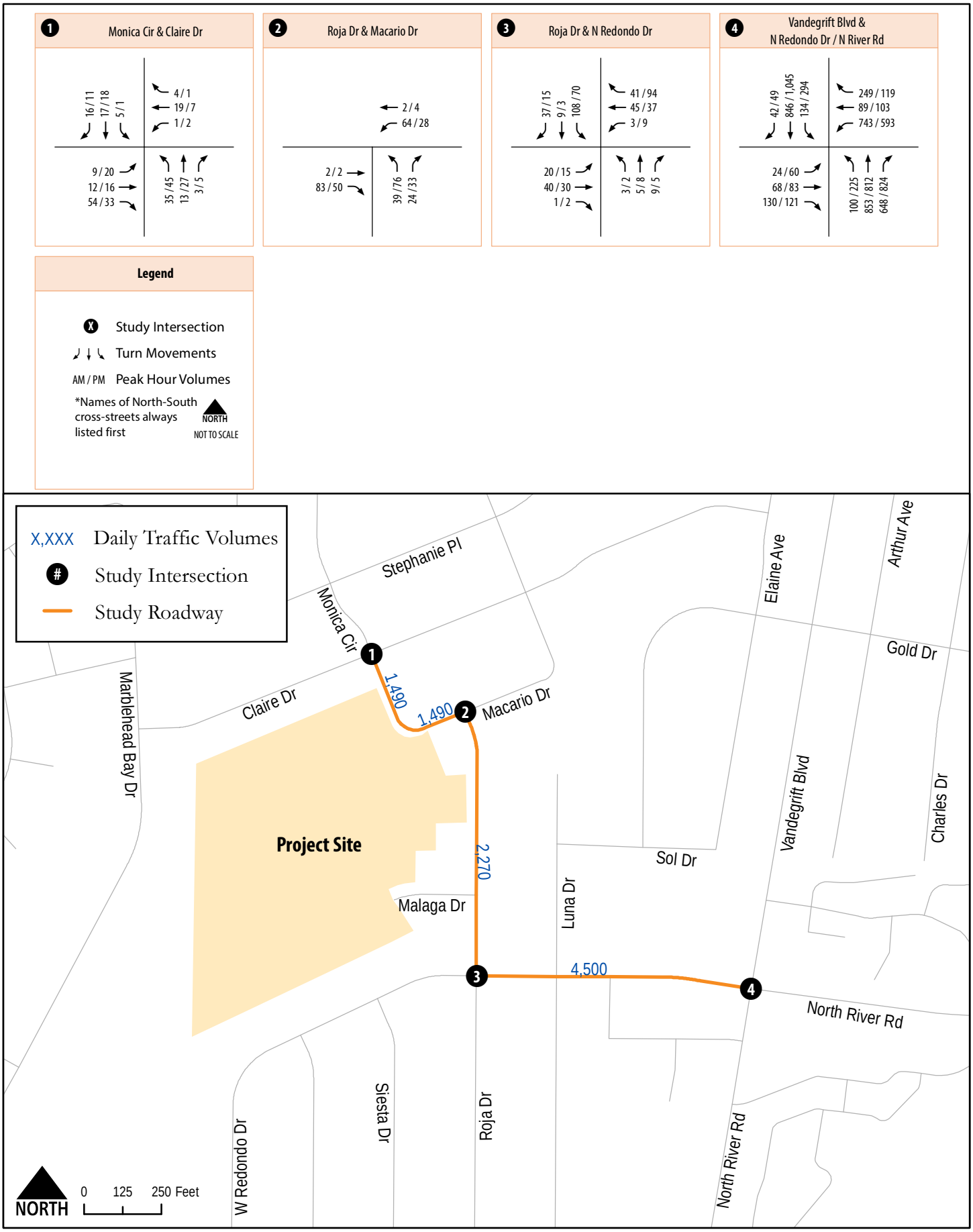

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Figure 5.3
Traffic Volumes
Near-Term Year 2025 Base Conditions

5.4.2 Intersection Analysis

Table 5.3 displays intersection LOS and average vehicle delay results for the key study area intersections under Near-Term Year 2025 Base Conditions. LOS calculation worksheets for Near-Term Year 2025 Base Conditions are provided in **Appendix H**.

Table 5.3 - Peak Hour Intersection LOS Results – Near-Term Year 2025 Base Conditions

#	Intersection	Control Type	AM Peak Hour		PM Peak Hour	
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1	Monica Circle & Claire Drive	SSSC	10.0	B	10.1	B
2	Roja Drive & Macario Drive	AWSC	7.5	A	7.5	A
3	Roja Drive & N. Redondo Drive	SSSC	12.2	B	10.7	B
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	70.0	**E**	86.3	**F**

Source: CR Associates (2023)

Note:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC= All-Way Stop Controlled
Bold letter indicates substandard LOS

As shown in Table 5.3, all study area intersections are projected to operate at acceptable LOS B or better under Near-Term Year 2025 Base conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour

5.5 Near-Term Year 2025 Base with Project Roadway Network and Traffic Volumes

Intersection geometrics under the Near-Term Year 2025 Base with Project conditions were assumed to be identical to the Near-Term Year 2025 Base conditions geometrics with exception to the following project feature:

- Enhancement of existing driveway, on the south leg of the Monica Circle and Macario Drive intersection, with special paving, landscaping, and monumentation to announce entry to the project site. This project driveway will provide the only access point to the project site which will function as a side-street stop-controlled intersection with full access.

Peak hour intersection volumes for the Near-Term Year 2025 Base with Project conditions were derived by combining the Proposed Project trips (as previously shown in Figure 3.2) to the Near-Term Year 2025 Base traffic volumes (as previously shown in Figure 5.3). Peak hour intersection volumes for this scenario are displayed in **Figure 5.4**.

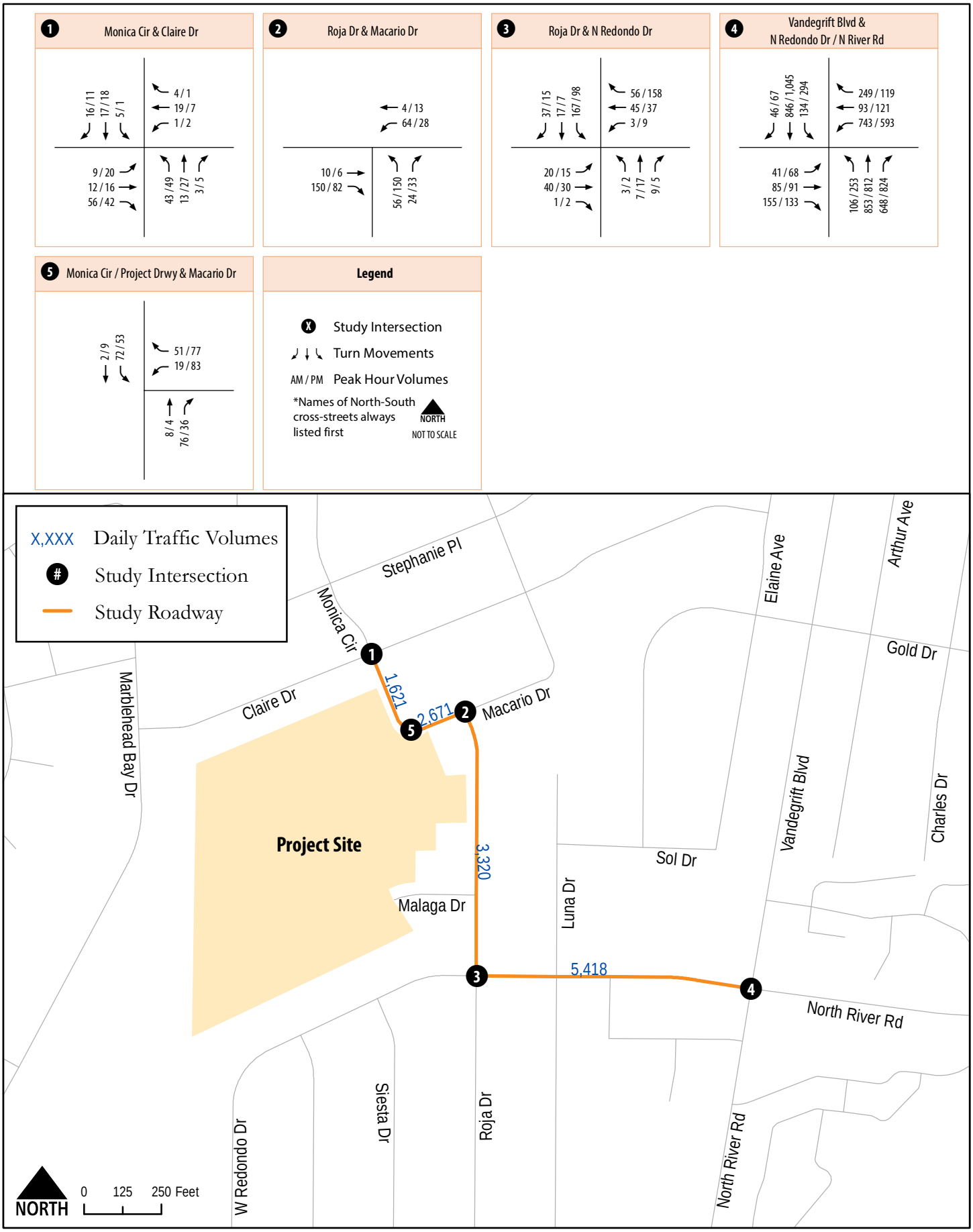

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Figure 5.4
Traffic Volumes
Near-Term Year 2025 Base with Project Conditions

5.6 Near-Term Year 2025 Base with Project Traffic Conditions

LOS analyses under Near-Term Year 2025 Base with Project conditions were conducted using the methodologies described in Chapter 2. Roadway segment and intersection LOS analysis results are discussed below.

5.6.1 Roadway Segment Analysis

Table 5.4 displays roadway segments and LOS analysis results for study roadway segments under Near-Term Year 2025 Base with Project conditions.

As shown in Table 5.4, the following study roadway segments are projected to operate above capacity under Near-Term Year 2025 Base with Project conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

5.6.2 Intersection Analysis

Table 5.5 displays intersection LOS and average vehicle delay results for the key study area intersections under Near-Term Year 2025 Base with Project Conditions. LOS calculation worksheets for Near-Term Year 2025 Base with Project conditions are provided in **Appendix I**.

As shown in Table 5.5, all study area intersections are projected to operate at acceptable LOS B or better under Near-Term Year 2025 Base with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 0.5 seconds in the AM peak hour and 1.5 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

Table 5.4 - Roadway Segment LOS Results – Near-Term Year 2025 Base with Project Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	Near-Term Year 2025			Near-Term Year 2025 + Project			ΔV/C	I?
				LOS	Daily Volume	V/C	LOS	Daily Volume	V/C		
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,490	0.677	C	1,621	0.737	0.060	N
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,490	0.677	Above Capacity[1]	2,671	1.214	0.537	N
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,270	1.032	Above Capacity[1]	3,320	1.509	0.477	N
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,500	0.600	B	5,418	0.722	0.122	N

Source: CR Associates (2023)

Notes:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity
I? = Improvement Required?

Table 5.5 - Peak Hour Intersection LOS Results – Near-Term Year 2025 Base with Project Conditions

#	Intersection	Control Type	Near-Term Year 2025				Near-Term Year 2025 + Project							
			AM Peak Hour		PM Peak Hour		AM Peak Hour				PM Peak Hour			
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Δ	I?	Avg. Delay (sec.)	LOS	Δ	I?
1	Monica Circle & Claire Drive	SSSC	10.0	B	10.1	B	10.1	B	0.1	N	10.2	B	0.1	N
2	Roja Drive & Macario Drive	AWSC	7.5	A	7.5	A	7.8	A	0.3	N	8.3	A	0.8	N
3	Roja Drive & N. Redondo Drive	SSSC	12.2	B	10.7	B	14.4	B	2.2	N	11.7	B	1.0	N
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	70.0	**E**	86.3	**F**	70.5	**E**	0.5	N	87.8	**F**	1.5	N
5	Monica Circle / Project Driveway & Macario Drive	SSSC	Does Not Exist				8.6	A	8.6	N	8.5	A	8.5	N

Source: CR Associates (2023)

Notes:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC = All-Way Stop Controlled
Bold letter indicates substandard LOS
I? = Improvement Required?

6.0 Horizon Year 2050 Conditions

This section provides an analysis of Horizon Year 2050 traffic conditions both with and without the Proposed Project. The scenarios analyzed in this section include:

- Horizon Year 2050
- Horizon Year 2050 with Project

As discussed in the introductory chapter, a Horizon Year 2050 scenario analysis is required per the City's Traffic Impact Analysis Guidelines. The following sections establish baseline conditions for projected long-range conditions of the transportation network within the study area against which traffic generated by the Proposed Project can be compared to.

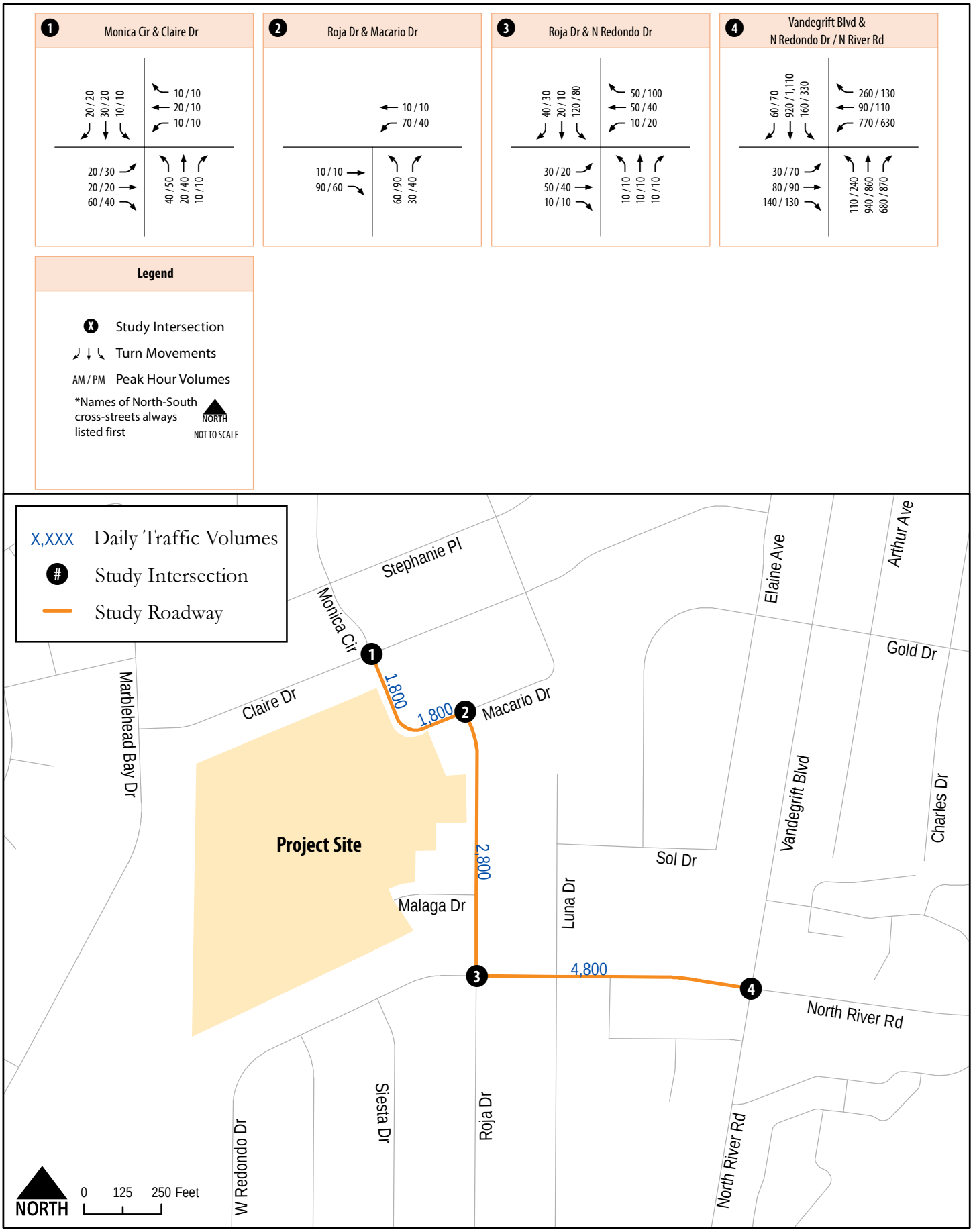
6.1 Horizon Year 2050 Roadway Network and Traffic Volumes

Intersection geometrics under Horizon Year 2050 Conditions were assumed to be identical to the Existing Conditions, as previously shown in Figure 4.1.

Forecasted Horizon Year 2050 ADT were developed by determining growth per year observed in the SANDAG Series 14 ABM2+/2021 RP model via the Transportation Forecast Information Center (TFIC) website and applying growth per year to existing counts for study roadway segments. The observed growth per year between Base Year 2016 and Horizon Year 2050 is 0.78%.

Horizon Year 2050 intersection peak hour turning movement volumes were developed by utilizing the National Cooperative Highway Research Program (NCHRP) Report 255 methodology for estimating intersection turning movements. This methodology describes the use of growth factors, based on the comparison of existing ADT and estimated Horizon Year 2050 ADT, which are applied to existing peak hour intersection approach and departure volumes. Manual adjustments were also made to ensure that traffic volumes among adjacent intersections were reasonably balanced.

Details on counts collected from TFIC and growth rates applied are provided in **Appendix J**. Roadway ADT and intersection peak hour volumes for this scenario are displayed in **Figure 6.1**.



Pacifica Housing Project
Local Transportation Study

Figure 6.1
Traffic Volumes
Horizon Year 2050 Conditions

6.2 Horizon Year 2050 Traffic Conditions

LOS analyses under Horizon Year 2050 Conditions were conducted using the methodologies described in Chapter 2. Study roadway segment and intersection LOS analysis results are discussed below.

6.2.1 Roadway Segment Analysis

Table 6.1 displays roadway segments and LOS analysis results for study roadway segments under Horizon Year 2050 conditions.

Table 6.1 - Roadway Segment LOS Results – Horizon Year 2050 Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	LOS	Daily Volume	V/C
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,800	0.818
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,800	0.818
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,800	1.273
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,800	0.640

Source: CR Associates (2023)

Note:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity

As shown in Table 6.1, the following study roadway segment is projected to operate above capacity under Horizon Year 2050 Conditions:

- Roja Drive, between Macario Drive and North Redondo Drive

6.2.2 Intersection Analysis

Table 6.2 displays intersection LOS and average vehicle delay results for the key study area intersections under Horizon Year 2050 Conditions. LOS calculation worksheets for Horizon Year 2050 Conditions are provided in **Appendix K**.

Table 6.2 - Peak Hour Intersection LOS Results – Horizon Year 2050 Conditions

#	Intersection	Control Type	AM Peak Hour		PM Peak Hour	
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1	Monica Circle & Claire Drive	SSSC	10.4	B	10.3	B
2	Roja Drive & Macario Drive	AWSC	7.8	A	7.8	A
3	Roja Drive & N. Redondo Drive	SSSC	14.6	B	11.6	B
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	57.8	**E**	91.2	**F**

Source: CR Associates (2023)

Note:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC= All-Way Stop Controlled
Bold letter indicates substandard LOS

As shown in Table 6.2, all study area intersections are projected to operate at acceptable LOS B or better under Near-Term Year 2025 Base conditions with exception to the following intersection:

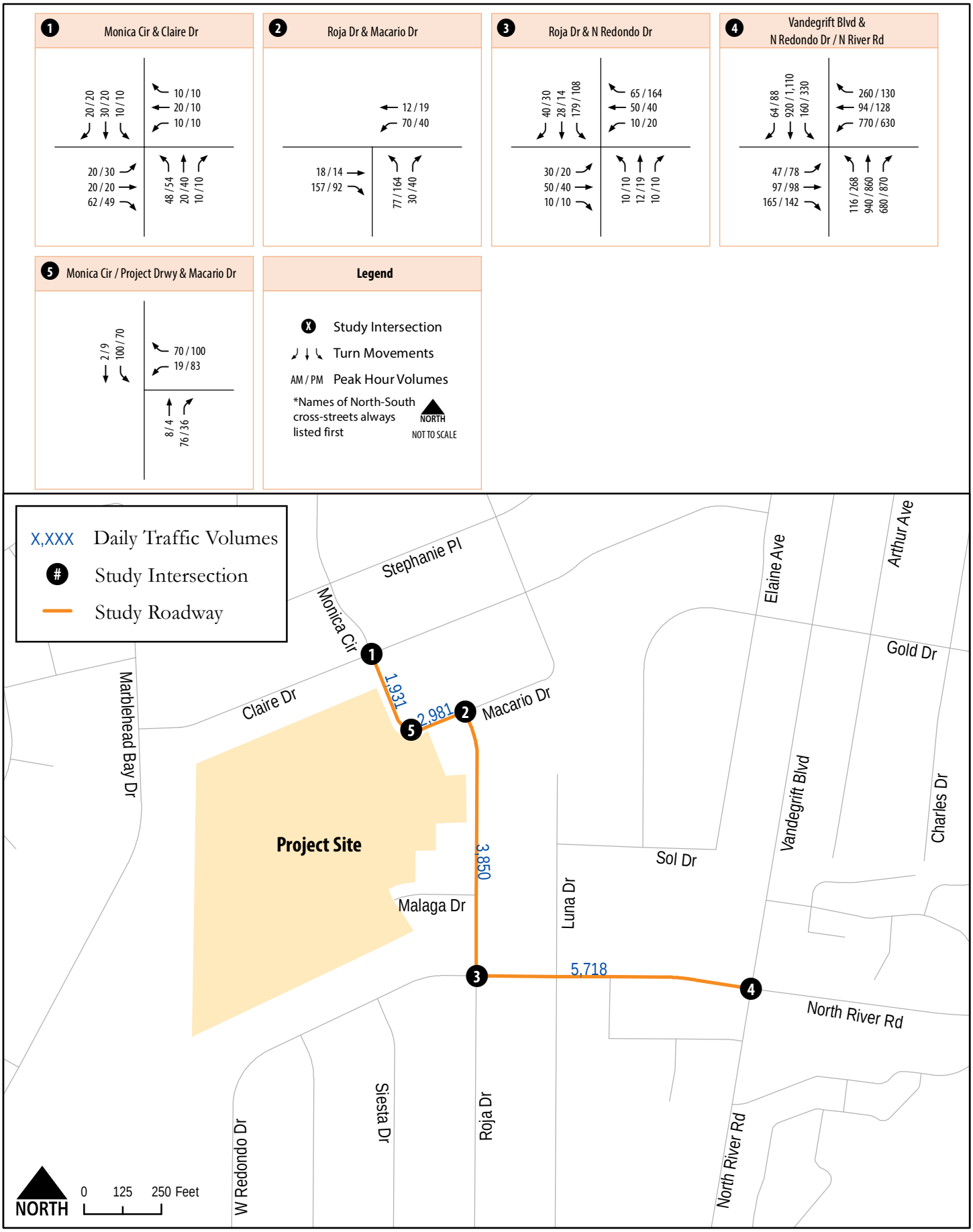
4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour

6.3 Horizon Year 2050 with Project Roadway Network and Traffic Volumes

Intersection geometrics under the Horizon Year 2050 with Project Conditions were assumed to be identical to the Horizon Year 2050 Conditions geometrics with exception to the following project feature:

- Enhancement of existing driveway, on the south leg of the Monica Circle and Macario Drive intersection, with special paving, landscaping, and monumentation to announce entry to the project site. This project driveway will provide the only access point to the project site which will function as a side-street stop-controlled intersection with full access.

Peak hour intersection volumes for the Horizon Year 2050 with Project Conditions were derived by combining the Proposed Project trips (as previously shown in Figure 3.2) to the Horizon Year 2050 traffic volumes (as previously shown in Figure 6.1). Peak hour intersection volumes for this scenario are displayed in **Figure 6.2**.



Pacifica Housing Project
Local Transportation Study

Figure 6.2
Traffic Volumes
Horizon Year 2050 with Project Conditions

6.4 Horizon Year 2050 with Project Traffic Conditions

LOS analyses under Horizon Year 2050 with Project Conditions were conducted using the methodologies described in Chapter 2. Study roadway segment and intersection LOS analysis results are discussed below.

6.4.1 Roadway Segment Analysis

Table 6.3 displays roadway segments and LOS analysis results for study roadway segments under Horizon Year 2050 with Project conditions.

As shown in Table 6.3, the following study roadway segments are projected to operate above capacity under Horizon Year 2050 with Project conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

6.4.2 Intersection Analysis

Table 6.4 displays intersection LOS and average vehicle delay results for the key study area intersections under Horizon Year 2050 with Project conditions. LOS calculation worksheets for Horizon Year 2050 with Project Conditions are provided in **Appendix L**.

As shown in Table 6.4 all study area intersections are projected to operate at acceptable LOS C or better under Horizon Year 2050 with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 1.5 seconds in the AM peak hour and 1.2 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

Table 6.3 - Roadway Segment LOS Results – Horizon Year 2050 with Project Conditions

Roadway	Segment	Function Classification	LOS Threshold (LOS E)	Horizon Year 2050			Horizon Year 2050 + Project			ΔV/C	I?
				LOS	Daily Volume	V/C	LOS	Daily Volume	V/C		
Monica Circle	Claire Drive to Macario Drive	Local Street (2-lane)	2,200	C	1,800	0.818	C	1,931	0.878	0.060	N
Macario Drive	Monica Circle to Roja Drive	Local Street (2-lane)	2,200	C	1,800	0.818	Above Capacity[1]	2,981	1.355	0.537	N
Roja Drive	Macario Drive to North Redondo Drive	Local Street (2-lane)	2,200	Above Capacity[1]	2,800	1.273	Above Capacity[1]	3,850	1.750	0.477	N
North Redondo Drive	Roja Drive to Vandergrift Boulevard	Collector[2] (2-lane)	7,500	B	4,800	0.640	C	5,718	0.762	0.122	N

Source: CR Associates (2023)

Notes:
[1] Based upon the City's Circulation Element, the roadway is classified as a Local Street with a daily volume threshold of 2,200 for LOS C. If the daily volume exceeds the 2,200 threshold, the roadway segment operates above capacity.
[2] Functional classification based upon the curb-to-curb distance.
V/C = Volume/Capacity
I? = Improvement Required?

Table 6.4 - Peak Hour Intersection LOS Results – Horizon Year 2050 with Project Conditions

#	Intersection	Control Type	Horizon Year 2050				Horizon Year 2050 + Project							
			AM Peak Hour		PM Peak Hour		AM Peak Hour				PM Peak Hour			
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS	Δ	I?	Avg. Delay (sec.)	LOS	Δ	I?
1	Monica Circle & Claire Drive	SSSC	10.4	B	10.3	B	10.6	B	0.2	N	10.3	B	0.0	N
2	Roja Drive & Macario Drive	AWSC	7.8	A	7.8	A	8.2	A	0.4	N	8.6	A	0.8	N
3	Roja Drive & N. Redondo Drive	SSSC	14.6	B	11.6	B	18.6	C	4.0	N	13.1	B	1.5	N
4	Vandegrift Boulevard / N. River Road & N. Redondo Drive	Signal	57.8	**E**	91.2	**F**	59.3	**E**	1.5	N	92.4	**F**	1.2	N
5	Monica Circle / Project Driveway & Macario Drive	SSSC	Does Not Exist				8.6	A	8.6	N	8.5	A	8.5	N

Source: CR Associates (2023)

Notes:
SSSC = Side-Street Stop Controlled. For SSSC intersections, the delay shown is the worst delay experienced by any of the movements.
AWSC = All-Way Stop Controlled
Bold letter indicates substandard LOS
I? = Improvement Required?

7.0 LOS Impacts and Improvement Requirements

This chapter provides improvements requirements needed to increase LOS to acceptable or pre-project conditions for any roadway segments or intersections found to operate unacceptably with implementation of the Proposed Project.

7.1 Improvement Requirements – Existing with Project Conditions

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity with implementation of the Proposed Project under Existing with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS D or better under Existing with Project conditions. Therefore, no study intersections are anticipated to degrade in LOS to unacceptable levels with implementation of the Proposed Project and no improvements will be required.

7.2 Improvement Requirements – Near-Term Year 2025 with Project Conditions

This section identifies required improvements for any study roadway segments or intersections that are associated with the Proposed Project under Near-Term Year 2025 Base with Project conditions.

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity with implementation of the Proposed Project under Near-Term Year 2025 Base with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS B or better under Near-Term Year 2025 Base with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 0.5 seconds in the AM peak hour and 1.5 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

7.3 Improvement Requirements – Horizon Year 2050 with Project Conditions

This section identifies required improvements for any study roadway segments or intersections that are associated with the Proposed Project under Horizon Year 2050 with Project conditions.

Roadway Segment Analysis

The roadway segments listed below are anticipated to operate above capacity with implementation of the Proposed Project under Horizon Year 2050 with Project Conditions:

- Macario Drive, between Monica Circle and Roja Drive
- Roja Drive, between Macario Drive and North Redondo Drive

It should be noted that the study roadway segments listed above are all local streets (non-Circulation Element roadways). Therefore, the determination of the need for roadway improvements shall be coordinated with City of Oceanside staff.

Given the buildout environment of these local streets and the relatively small amount of traffic that the Project will add to the surrounding transportation network, it is not anticipated that roadway improvements involving widening would be required. However, alternative improvements may be necessary such as traffic calming measures (i.e., speed cushions, speed feedback signs, etc.) and/or pedestrian or bicycle improvements such as high visibility crosswalks at nearby intersections.

Intersection Analysis

All study area intersections are projected to operate at acceptable LOS C or better under Horizon Year 2050 with Project Conditions with exception to the following intersection:

4. Vandegrift Boulevard / N. River Road & N. Redondo Drive – LOS E during the AM peak hour and LOS F during the PM peak hour. The trips associated with the Proposed Project would increase delay at this intersection by 1.5 seconds in the AM peak hour and 1.2 seconds in the PM peak hour, which does not surpass the 2-second threshold for intersections operating at LOS E or F.

Based upon the criteria outlined in Section 2.5, the study intersection listed above is not anticipated to have an LOS impact with implementation of the Proposed Project and no improvements will be required.

8.0 Site Access & Circulation

This chapter addresses access to the project site and discusses the functionality of the project's internal circulation.

8.1 Driveway Access

The Proposed Project will be located at the southwest corner of the Monica Circle and Macario Drive intersection within the City of Oceanside. The project site is currently vacant and used to serve as the Pacifica Elementary School, which was closed in July 2007. The property is bordered by single family dwelling units on all sides.

The Proposed Project will be accessed primarily via the existing driveway which is the south leg of the three-legged intersection at Monica Circle and Macario Drive. Enhancements to this existing driveway will include special paving, landscaping, and monumentation to announce entry to the project site. The project driveway will function as a side-street stop-controlled intersection with full access. This driveway is projected to operate at LOS A under all study scenarios.

A secondary emergency access only access point will be located at Malaga Drive.

After further review of the project site plan, the following recommendations are provided:

- Driveways are recommended to be constructed in accordance with City standards
- Stop sign (R1-1) to be installed at the project driveway

8.2 Internal Circulation

Internal roadways on the project site allows for two-way flow of vehicle traffic. Dead-end aisles between buildings provide direct access to garages for each dwelling unit. Guest parking is provided at the community entry point. Additional resident parallel parking is also available throughout the project site.

Based upon review of the project site plan, the following recommendations are provided:

- Appropriate signage to warn drivers of pedestrian foot traffic
- Consider installation of speed cushions/bumps along internal roadways to calm traffic

Appendix A - Project Information Form – Pacifica Housing Project

PROJECT INFORMATION FORM (PIF)

THE FOLLOWING IS TO BE COMPLETED BY THE PROJECT APPLICANT:

	PROJECT INFORMATION FORM		
1.	**PROJECT DESCRIPTION:** The Oceanside Multi-Family project proposes to construct 164 townhomes on the old Pacifica Elementary School site (approximately 14.55 acres).		
2.	**PROJECT LOCATION:** Located adjacent to the intersection of Monica Circle and Macario Drive		
3.	**LAND USE:** Multi-Family (Residential) **SIZE/DENSITY:** 164 townhomes		
4.	**ZONING AND LAND USE CONSISTENT WITH ADOPTED GENERAL PLAN?**	☐ Yes	☑ No
5.	**PROJECT LOCATED IN TRANSIT PRIORITY AREA[1], SMART GROWTH AREA[2], OR LOW VMT AREA[3]?**	☑ Yes	☐ No
6.	**PROJECT TRIP GENERATION:** 1,312 **ADT**	☐ < 200 ADT ☐ ≥ 200 ADT ☑ ≥ 1,000 ADT ☐ ≥ 2,400 ADT	
	ATTACHMENTS		
A.	**PROJECT LOCATION MAP**	☑ Attached	
B.	**PROJECT TRIP DISTRIBUTION**	☑ Attached	
C.	**PROJECT TRIP ASSIGNMENT**	☑ Attached	

1) Projects located in a TPA must be able to access the transit station within a ½ mile walking distance or 6 minute walk continuously without discontinuity of sidewalk or obstructions to the route. Qualifying transit stops means a site containing an existing rail transit station served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods (OPR, 2017). A high-quality transit corridor may also be considered if a corridor with fixed route bus service has service intervals no longer than 15 minutes during peak commute hours (OPR, 2017).
(2) See Appendix B.
(3) Based on the most recent SANDAG SB 743 Screening Map. Example shown in Appendix C.

TO BE COMPLETED BY CITY STAFF AND RETURNED TO PROJECT APPLICANT

	PROJECT STUDY REQUIREMENTS			
1)	**Does the project require a CEQA VMT analysis?**	☑ Yes	☐ No	☐ Incomplete[(1)]
	A. If yes, does the project require a SANDAG Model Run?	☐ Yes	☑ No	
2a)	**Does the project require a Local Transportation Study?**	☒ Yes	☐ No	☐ Incomplete[(1)]
	OR			
2b)	**Does the project require a Local Transportation Assessment?**	☐ Yes	☒ No	☐ Incomplete[(1)]

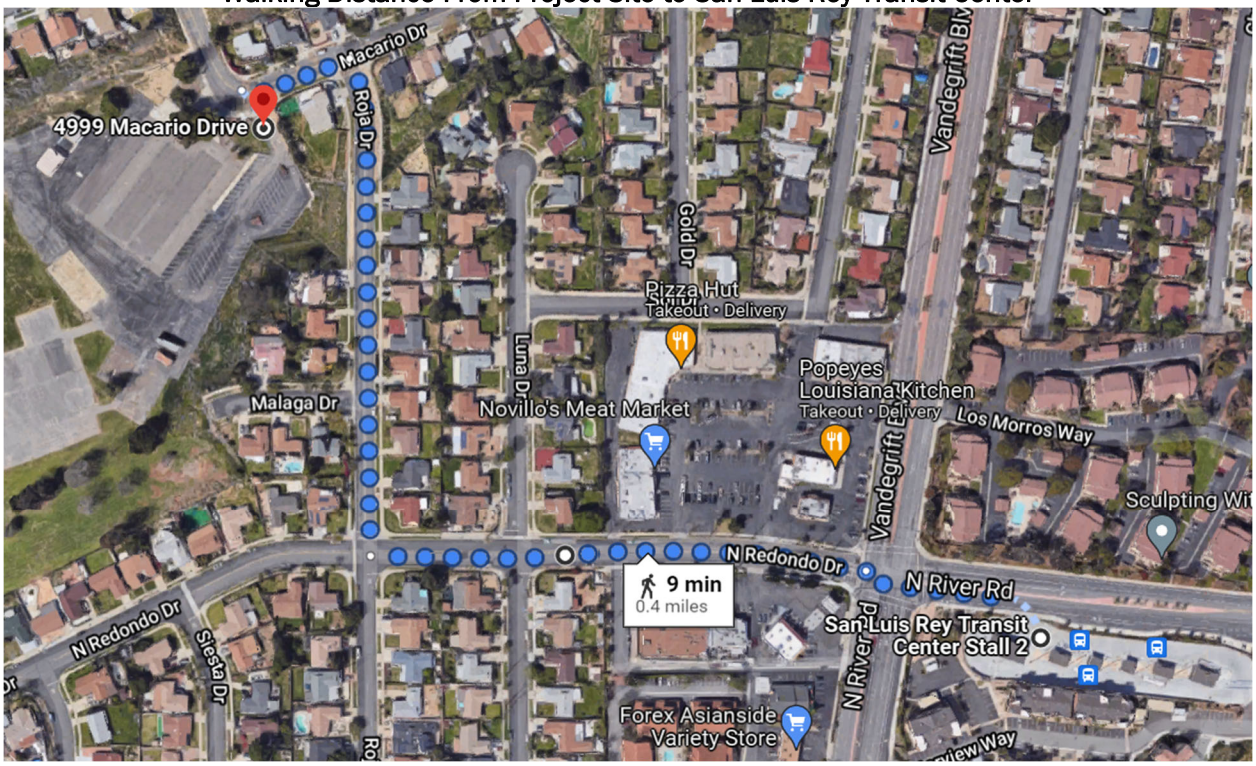
[(1)] Incomplete application or additional information is needed to determine study requirements.

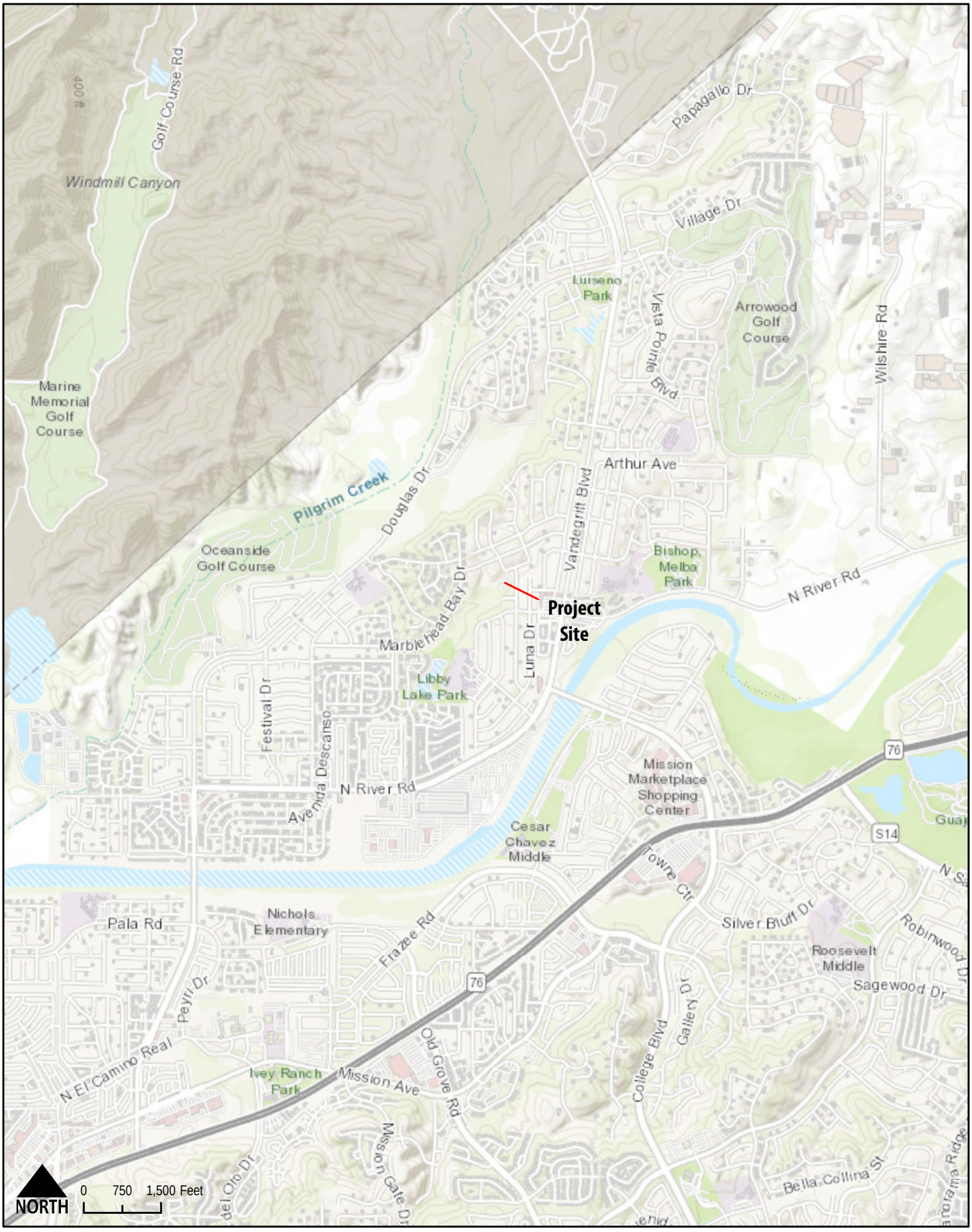
SW 05/12/23
Planning Division Date

5/12/23
Transportation Engineering Section Date

The Project is located within a ½ mile walking distance, without discontinuity of sidewalk or obstructions to the route, of the San Luis Rey Transit Center.

Walking Distance From Project Site to San Luis Rey Transit Center

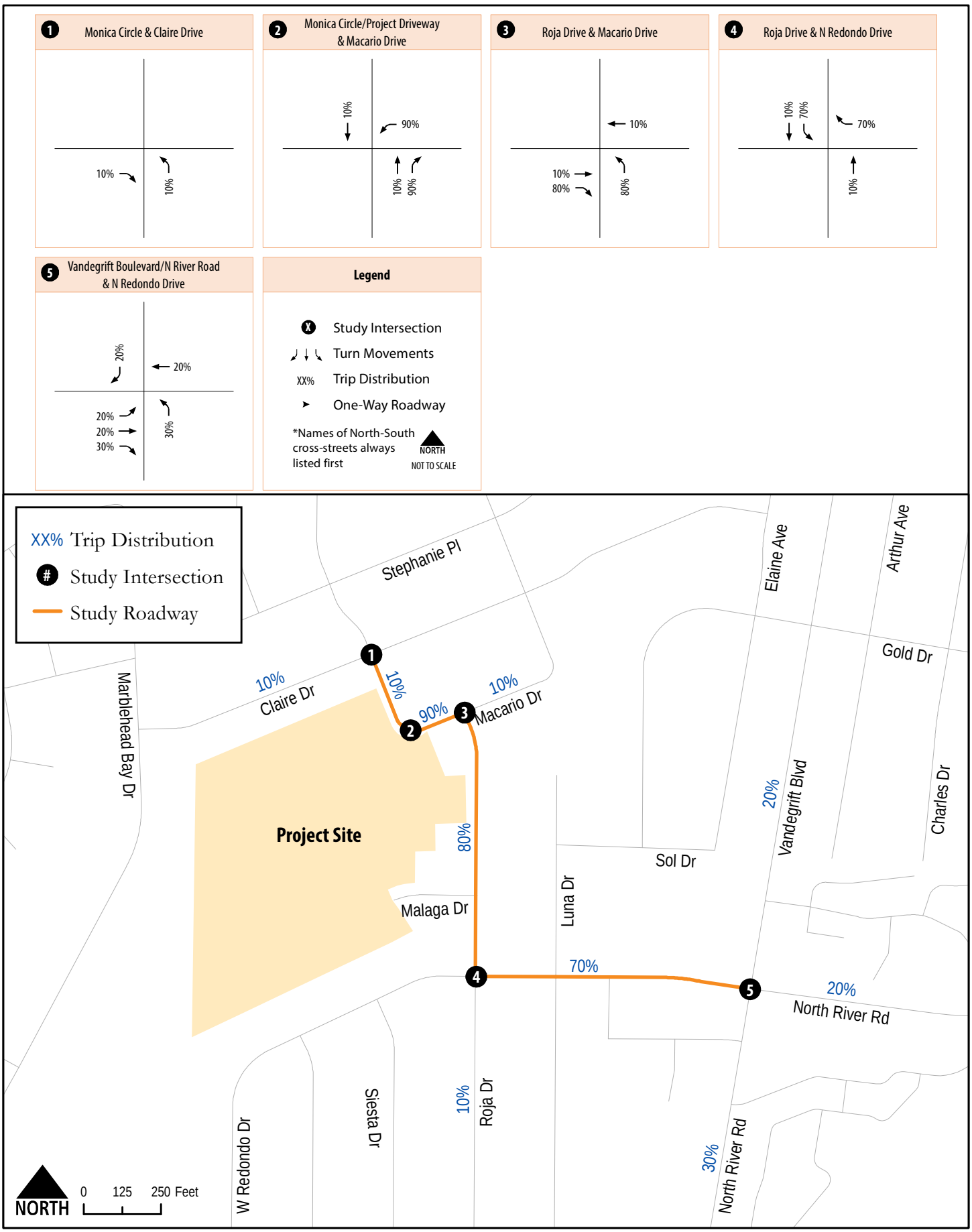




Oceanside Multi-Family
Project Information Form

C+R

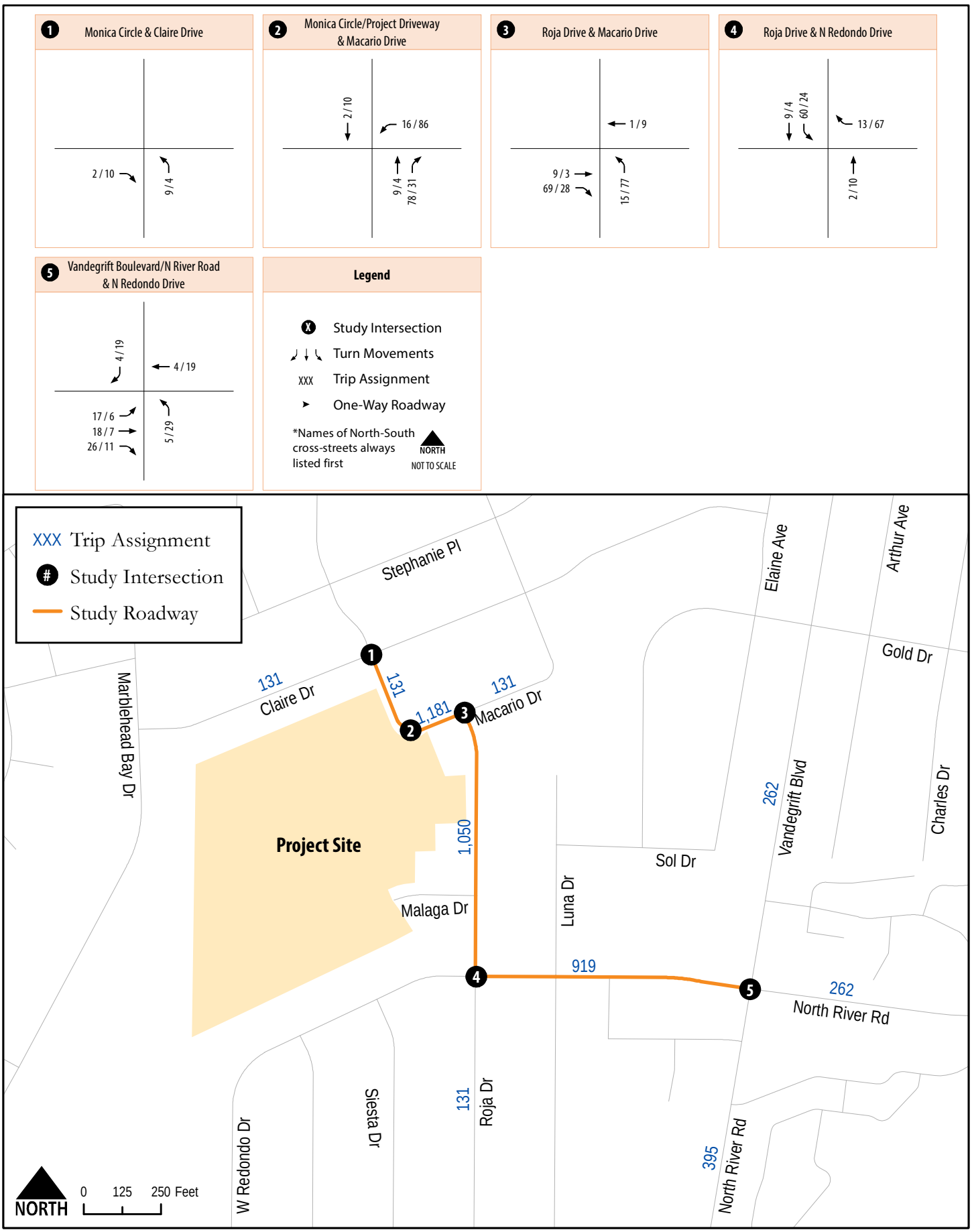
Figure 1
Project Regional Location



Oceanside Multi-Family Project Information Form

C+R

Figure 2
Project Trip Distribution



Oceanside Multi-Family Project Information Form

C R

Figure 3
Project Trip Assignment

Appendix B - Signal Timing Sheets

INTERSECTION: North River & Vandegrift/Red

Group Assignment: **NONE**
Field Master Assignment: **NONE**
System Reference Number: **82**

N/S Street Name: **Not Assigned**
E/W Street Name: **Not Assigned**

Last Database Change: **9/16/2022 3:17:52 PM**

Change Record					
Change	By	Date	Change	By	Date

Notes:

Drop Number	**15**	<C+0+0>
Zone Number		<C+0+1>
Area Number	**1**	<C+0+2>
Area Address	**82**	<C+0+3>
QuicNet Channel	**Serial:COM20:**	(QuicNet)

Communication Addresses

Manual Plan		<C+A+1>
Manual Offset		<C+B+1>

Manual Selection

Max Initial	**20**	<F+0+E>
Red Revert	**2.0**	<F+0+F>
All Red Start	**5.0**	<F+C+0>

Start / Revert Times

	Phase							
Column Numbers ---->	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Row	*Phase Names ----->*								
0	Ped Walk	**0**	**7**	**0**	**4**	**0**	**7**	**0**	**4**
1	Ped FDW	**0**	**20**	**0**	**22**	**0**	**16**	**0**	**20**
2	Min Green	**5**	**10**	**5**	**6**	**5**	**10**	**5**	**8**
3	Type 3 Limit	**0**	**99**	**0**	**0**	**0**	**99**	**0**	**0**
4	Added Initial	**0.0**	**2.0**	**0.0**	**0.0**	**0.0**	**2.0**	**0.0**	**0.0**
5	Veh Extension	**2.5**	**4.5**	**2.5**	**3.0**	**2.5**	**4.5**	**2.5**	**3.0**
6	Max Gap	**2.5**	**8.0**	**2.5**	**3.0**	**2.5**	**8.0**	**2.5**	**3.0**
7	Min Gap	**2.5**	**4.0**	**2.5**	**3.0**	**2.5**	**4.0**	**2.5**	**3.0**
8	Max Limit	**20**	**60**	**25**	**25**	**60**	**40**	**20**	**25**
9	Max Limit 2	**30**	**40**	**30**	**30**	**30**	**40**	**30**	**30**
A	- - - - - -	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
B	Call To Phase	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
C	Reduce By	**0.0**	**0.1**	**0.0**	**0.0**	**0.0**	**0.1**	**0.0**	**0.0**
D	Reduce Every	**0.0**	**1.2**	**0.0**	**0.0**	**0.0**	**1.2**	**0.0**	**0.0**
E	Yellow Change	**4.1**	**4.8**	**4.1**	**4.8**	**4.1**	**4.8**	**4.1**	**4.8**
F	Red Clear	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Phase Timing - Bank 1 <F Page>

	E
RR-1 Delay	**0**
RR-1 Clear	**10**
EV-A Delay	**0**
EV-A Clear	**5**
EV-B Delay	**0**
EV-B Clear	**5**
EV-C Delay	**0**
EV-C Clear	**5**
EV-D Delay	**0**
EV-D Clear	**5**
RR-2 Delay	**0**
RR-2 Clear	**10**
View EV Delay	- - -
View EV Clear	- - -
View RR Delay	- - -
View RR Clear	- - -

Preempt Timing

	F	Row
Permit	**12345678**	**0**
Red Lock	_____	**1**
Yellow Lock	_____	**2**
Min Recall	**_2___6__**	**3**
Ped Recall	_____	**4**
View Set Peds	- - - - -	**5**
Rest In Walk	_____	**6**
Red Rest	_____	**7**
Dual Entry	**_2_4_6_8**	**8**
Max Recall	_____	**9**
Soft Recall	_____	**A**
Max 2	_____	**B**
Cond. Service	_____	**C**
Man Cntrl Calls	_____	**D**
Yellow Start	**1___5___**	**E**
First Phases	**_2___6__**	**F**

Phase Functions <F Page>

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

(* = Coordination Recall)

Row	Column Numbers ---->	Plan 1	2	3	4	5	6	7	8	9	Row
	Plan Name ---->										
0	Cycle Length	100	100	130	100	90	140	120	100	120	0
1	Phase 1 - ForceOff	65	25	72	75	60	100	75	65	25	1
2	Phase 2 - ForceOff	0	0	0	0	0	0	0	0	0	2
3	Phase 3 - ForceOff	25	45	34	40	26	48	26	25	45	3
4	Phase 4 - ForceOff	50	60	52	55	41	68	55	50	75	4
5	Phase 5 - ForceOff	65	25	95	17	60	110	75	65	100	5
6	Phase 6 - ForceOff	0	0	0	0	0	18	0	0	0	6
7	Phase 7 - ForceOff	20	40	18	1	1	42	20	25	40	7
8	Phase 8 - ForceOff	50	60	52	1	1	68	55	40	75	8
9	Ring Offset	0	0	0	0	0	0	0	0	0	9
A	Offset 1	57	40	60	47	16	70	94	0	40	A
B	Offset 2	0	0	0	0	0	0	0	0	0	B
C	Offset 3	0	0	0	0	0	0	0	0	0	C
D	Permissive	5	5	16	5	12	19	12	12	12	D
E	Hold Release	90	85	255	90	255	255	255	255	255	E
F	Zone Offset	0	0	0	0	0	0	0	0	0	F

Coordination <C Page>

Row		E	Row
		E	
0			0
1	Plan 1 - Sync	_2___6__	1
2	Plan 2 - Sync	_2___6__	2
3	Plan 3 - Sync	_2___6__	3
4	Plan 4 - Sync	_2___6__	4
5	Plan 5 - Sync	_2___6__	5
6	Plan 6 - Sync	_2___6__	6
7	Plan 7 - Sync	_2___6__	7
8	Plan 8 - Sync	_2___6__	8
9	Plan 9 - Sync	_2___6__	9
A	Coord Ped *	_____	A
B	NEMA Hold	_____	B
C			C
D			D
E			E
F			F

Sync Phases <C Page>

Row	Column Numbers ---->	E	Row
0	Exclusive Phases	_____	0
1	RR-1 Clear Phases	_____	1
2	RR-2 Clear Phases	_____	2
3	RR-2 Limited Service	_____	3
4	Prot / Perm Phases	_____	4
5	Overlap A - Green Omit	_____	5
6	Overlap B - Green Omit	_____	6
7	Overlap C - Green Omit	_____	7
8	Overlap D - Green Omit	_____	8
9	Overlap Yellow Flash	_____	9
A	EV-A Phases	_2__5___	A
B	EV-B Phases	___4__7_	B
C	EV-C Phases	1____6__	C
D	EV-D Phases	__3____8	D
E	Extra 1 Config. Bits	1__4____	E
F	IC Select (Interconnect)	_2_____	F

Configuration <E Page>

	F
RR Overlap A - Phases	_____
RR Overlap B - Phases	_____
RR Overlap C - Phases	_____
RR Overlap D - Phases	_____
Ped 2P	_2_____
Ped 6P	_____6__
Ped 4P	___4____
Ped 8P	_____8
Yellow Flash Phases	_____
Overlap A - Phases	_____
Overlap B - Phases	_____
Overlap C - Phases	_____
Overlap D - Phases	_____
Restricted Phases	_____
Assign 5 Outputs	_____

Configuration <E Page>

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 =
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

Assign 5 Outputs
(Ped Loadswitch Yellows)
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Force-Off Adjust	5

Coord Force-Off Adjust for Ped Service <C+D+F>

Transition Type	0

TBC Transition <C+D+D>

Transition Type
0 = Shortway
Non-zero = Lengthen

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Row		F	Row
		F	
0	Free Lag	_2_4_6_8	0
1	Plan 1 - Lag	_2_4_6_8	1
2	Plan 2 - Lag	1__45__8	2
3	Plan 3 - Lag	_2_4_6_8	3
4	Plan 4 - Lag	_2_45__8	4
5	Plan 5 - Lag	_2_4_6_8	5
6	Plan 6 - Lag	_2_4_6_8	6
7	Plan 7 - Lag	_2_4_6_8	7
8	Plan 8 - Lag	_2_4_6_8	8
9	Plan 9 - Lag	1__4_6_8	9
A	Coord Max *	_____	A
B	Coord Lag *	_____	B
C			C
D			D
E			E
F			F

Lag Phases <C Page>

Row	Time	Plan	Offset	Day of Week
0	00 : 00	E	A	1234567
1	06 : 00	7	A	_23456_
2	09 : 00	E	A	_23456_
3	15 : 00	6	A	_23456_
4	17 : 30	E	A	_23456_
5	00 : 00	0	0	_____
6	00 : 00	0	0	_____
7	00 : 00	0	0	_____
8	00 : 00	0	0	_____
9	00 : 00	0	0	_____
A	00 : 00	0	0	_____
B	00 : 00	0	0	_____
C	00 : 00	0	0	_____
D	00 : 00	0	0	_____
E	00 : 00	0	0	_____
F	00 : 00	0	0	_____

TOD Coordination
<9 Key with C+D+9=0>

Time	Funct.	Day of Week	Column F Phases/Bits
15 : 00	C	_23456_	1_____
18 : 00	C	_23456_	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____
00 : 00	0	_____	_____

TOD Function
<7 Key>

<D Page>

Time	Plan	Offset	Day of Week
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____

Holiday # 1 TOD Coordination
<9 Key with C+D+9=1>

Time	Plan	Offset	Day of Week
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____
00 : 00	0	0	_____

Holiday # 2 TOD Coordination
<9 Key with C+D+9=2>

Time	Plan	Offset	Day of Week	Row
00 : 00	0	0	_____	0
00 : 00	0	0	_____	1
00 : 00	0	0	_____	2
00 : 00	0	0	_____	3
00 : 00	0	0	_____	4
00 : 00	0	0	_____	5
00 : 00	0	0	_____	6
00 : 00	0	0	_____	7
00 : 00	0	0	_____	8
00 : 00	0	0	_____	9
00 : 00	0	0	_____	A
00 : 00	0	0	_____	B
00 : 00	0	0	_____	C
00 : 00	0	0	_____	D
00 : 00	0	0	_____	E
00 : 00	0	0	_____	F

Holiday # 3 TOD Coordination
<9 Key with C+D+9=3>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Offset Select
A = Offset A
B = Offset B
C = Offset C

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Month Select
1 = January
2 = February
3 = March
4 = April
5 = May
6 = June
7 = July
8 = August
9 = September
A = October
B = November
C = December

Row		Day	Year	Month	Day of Week
A	Holiday # 1 Date	0	0	0	_____
B	Holiday # 2 Date	0	0	0	_____
C	Holiday # 3 Date	0	0	0	_____

Holiday Dates
<8 Key>

Row	1 Delay	3 Carry-over	Detector Name	332 Input File	Detector Number
0	1.0	0.0		I-1	14
1	0.0	0.0		I-2U	1
2	0.0	0.0		I-2L	5
3	0.0	0.0		I-3U	21
4	0.0	0.0		I-3L	25
5	0.0	0.0		I-4	9
6	0.0	0.0		I-5	16
7	0.0	0.0		I-6U	3
8	0.0	0.0		I-6L	7
9	0.0	0.0		I-7U	23
A	0.0	0.0		I-7L	27
B	0.0	0.0		I-8	11
C	0.0	0.0		I-9U	18
D	0.0	0.0		I-9L	20
E	- - -	- - -	- - -	- - -	- - -
F	- - -	- - -	- - -	- - -	- - -

Row	2 Delay	4 Carry-over	Detector Name	332 Input File	Detector Number
0	0.0	0.0		J-1	13
1	0.0	0.0		J-2U	2
2	0.0	0.0		J-2L	6
3	0.0	0.0		J-3U	22
4	0.0	0.0		J-3L	26
5	10.0	0.0		J-4	10
6	0.0	0.0		J-5	15
7	0.0	0.0		J-6U	4
8	0.0	0.0		J-6L	8
9	0.0	0.0		J-7U	24
A	0.0	0.0		J-7L	28
B	0.0	0.0		J-8	12
C	0.0	0.0		J-9U	17
D	0.0	0.0		J-9L	19
E	- - -	- - -	- - -	- - -	- - -
F	- - -	- - -	- - -	- - -	- - -

Detector Delay & Carryover <D Page>

Row		9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
A	Overlap A	0.0	0.0	0.0	0
B	Overlap B	0.0	0.0	0.0	0
C	Overlap C	0.0	0.0	0.0	0
D	Overlap D	0.0	0.0	0.0	0

Overlap Timing <F Page> <D Page>

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Note: Initialized data is for all detectors to be active (ie, all flag bits set). A Detector which is "not flagged", will not be active as a Phase Detector, and WILL NOT call or extend its associated phase. It will still function as a System Detector.

Row		0 Detector Number
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (minutes)	5	<D+A+E>
Max OFF (minutes)	60	<D+A+F>

Detector Failure Monitor

Phase Number	0	<F+C+1>
Time Before Yellow	0.0	<F+C+3>

Advance Warning Beacon - Sign 1

Phase Number	0	<F+D+1>
Time Before Yellow	0.0	<F+D+3>

Advance Warning Beacon - Sign 2

Long Failure	0.0	<F+0+6>
Short Failure	0.0	<F+0+7>

Power Cycle Correction (Default = 0.5)

Disable Parity	0	<D+B+0>

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Appendix C - Bus Route Schedules

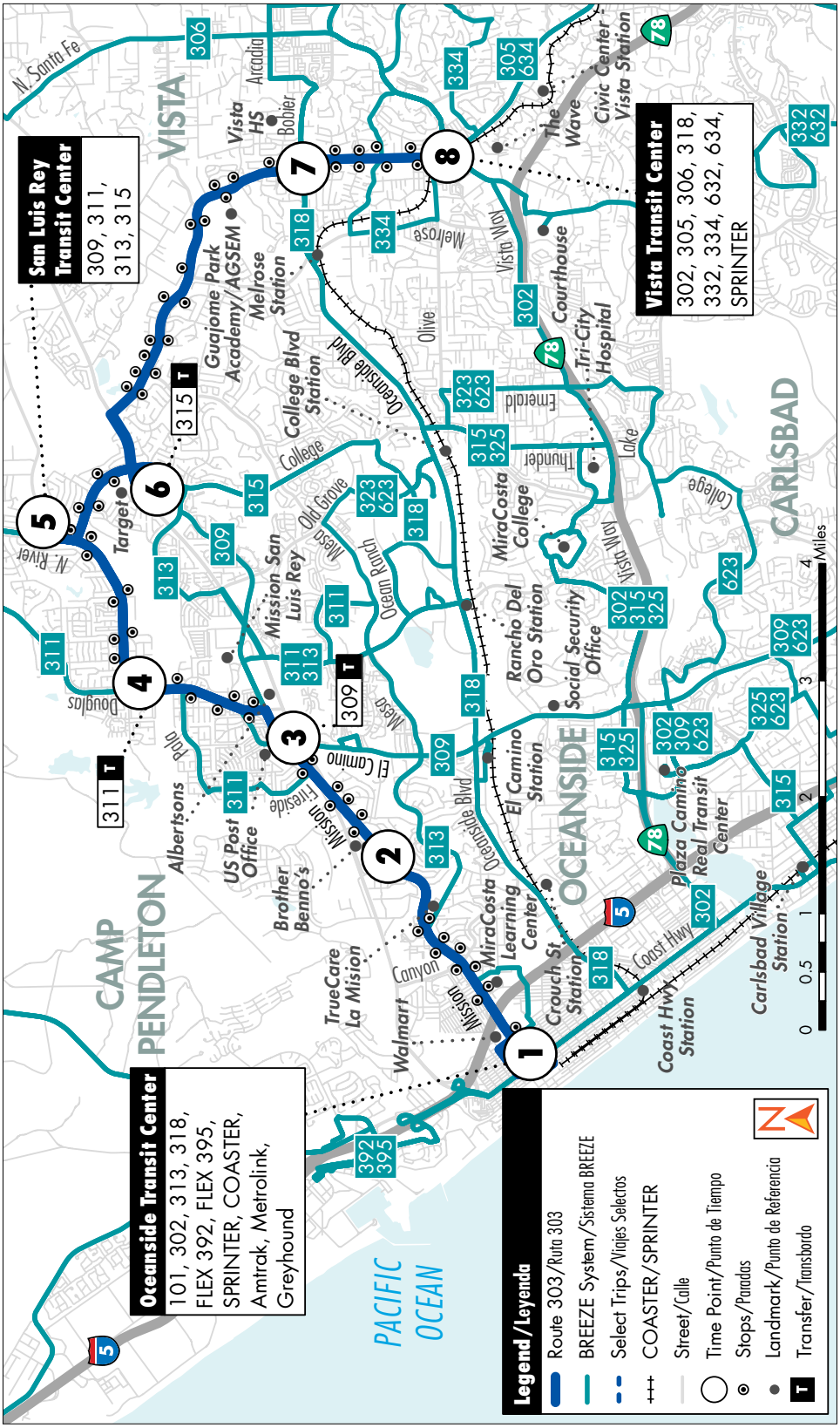
303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

M-F • SA • SU
L-V • SÁ • DO

Destinations/Destinos

- TrueCare La Mision
- MiraCosta College Learning Center
- Town Center North (Walmart)
- Vista High School
- Antique Gas & Steam Engine Museum (AGSEM)
- Jefferson Middle School
- Oceanside High School
- Vista Community Clinic



303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Eastbound to Vista
Lunes a Viernes • Dirección hacia el este a Vista

Oceanside Transit Center	Mission Ave. & Airport Rd.	Mission Ave. & El Camino Real	Douglas Dr. & N. River Rd.	San Luis Rey Transit Center	Town Center North	N. Santa Fe & Bobier Dr.	Vista Transit Center
1	2	3	4	5	6	7	8
4:05	4:14	4:18	4:22	4:28	4:34	4:43	4:51a
4:35	4:44	4:48	4:52	4:58	5:04	5:13	5:21
5:00	5:10	5:14	5:18	5:25	5:32	5:43	5:51
5:30	5:40	5:44	5:48	5:55	6:02	6:13	6:21
5:56	6:07	6:11	6:15	6:22	6:31	6:42	6:51
6:24	6:35	6:39	6:44	6:51	7:00	7:12	7:21
6:46	6:57	7:03	7:08	7:16	7:25	7:40	7:51
7:14	7:27	7:33	7:38	7:46	7:55	8:10	8:21
7:49	8:02	8:08	8:13	8:21	8:30	8:43	8:51
8:20	8:33	8:39	8:44	8:52	9:01	9:13	9:21
8:50	9:03	9:09	9:14	9:22	9:31	9:43	9:51
9:20	9:33	9:39	9:44	9:52	10:01	10:13	10:21
9:50	10:03	10:09	10:14	10:22	10:31	10:43	10:51
10:19	10:32	10:38	10:43	10:51	11:01	11:13	11:21
10:49	11:02	11:08	11:13	11:21	11:31	11:43	11:51
11:17	11:31	11:37	11:43	11:51	**12:01**	**12:13**	**12:21p**
11:45	11:59	**12:06**	**12:12**	**12:21**	**12:31**	**12:43**	**12:51**
12:15	**12:29**	**12:36**	**12:42**	**12:51**	**1:01**	**1:13**	**1:21**
12:45	**12:59**	**1:06**	**1:12**	**1:21**	**1:31**	**1:43**	**1:51**
1:13	**1:27**	**1:34**	**1:41**	**1:50**	**2:00**	**2:12**	**2:21**
1:39	**1:54**	**2:01**	**2:08**	**2:17**	**2:27**	**2:40**	**2:51**
2:04	**2:20**	**2:27**	**2:35**	**2:44**	**2:55**	**3:10**	**3:21**
2:33	**2:49**	**2:56**	**3:04**	**3:13**	**3:25**	**3:40**	**3:51**
3:02	**3:18**	**3:25**	**3:33**	**3:42**	**3:55**	**4:10**	**4:21**
***3:18**	***3:35**	***3:42**	***3:50**	***3:59**	***4:12**	***4:27**	***4:38**
3:31	**3:48**	**3:55**	**4:03**	**4:12**	**4:25**	**4:40**	**4:51**
****3:48**	****4:05**	****4:12**	****4:20**	****4:29**	****4:42**	****4:57**	****5:08**
4:06	**4:21**	**4:28**	**4:36**	**4:45**	**4:58**	**5:12**	**5:21**
4:36	**4:51**	**4:58**	**5:06**	**5:15**	**5:28**	**5:42**	**5:51**
5:08	**5:23**	**5:30**	**5:38**	**5:47**	**5:59**	**6:12**	**6:21**
5:41	**5:56**	**6:03**	**6:11**	**6:20**	**6:31**	**6:42**	**6:51**
6:14	**6:29**	**6:36**	**6:42**	**6:51**	**7:02**	**7:13**	**7:21**
6:47	**7:01**	**7:08**	**7:14**	**7:22**	**7:32**	**7:43**	**7:51**
7:20	**7:33**	**7:39**	**7:45**	**7:53**	**8:02**	**8:13**	**8:21**

* **Operates Wednesday only.**
Opera solamente los Miércoles.

** **Operates Monday, Tuesday, Thursday, and Friday.**
Opera Lunes, Martes, Jueves y Viernes.

303 Oceanside to Vista via Town Center North
Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Eastbound to Vista
Lunes a Viernes • Dirección hacia el este a Vista

Oceanside Transit Center	Mission Ave. & Airport Rd.	Mission Ave. & El Camino Real	Douglas Dr. & N. River Rd.	San Luis Rey Transit Center	Town Center North	N. Santa Fe & Bobier Dr.	Vista Transit Center
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
7:52	**8:05**	**8:11**	**8:16**	**8:24**	**8:33**	**8:44**	**8:51**
8:25	**8:38**	**8:44**	**8:49**	**8:56**	**9:03**	–	–
9:00	**9:12**	**9:17**	**9:22**	**9:28**	**9:35**	**9:45**	**9:51**
9:31	**9:43**	**9:48**	**9:52**	**9:58**	**10:05**	–	–
10:02	**10:14**	**10:19**	**10:23**	**10:29**	**10:36**	**10:45**	**10:51**
10:39	**10:49**	**10:52**	**10:56**	**11:01**	**11:07**	**11:15**	**11:21**
11:09	**11:19**	**11:22**	**11:26**	**11:31**	**11:37**	**11:45**	**11:51**
11:39	**11:49**	**11:52**	**11:56**	12:01	12:07a	–	–

303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Westbound to Oceanside
Lunes a Viernes • Dirección hacia el oeste a Oceanside

Vista Transit Center	N. Santa Fe & Bobier Dr.	Town Center North	San Luis Rey Transit Center	Douglas Dr. & N. River Rd.	Mission Ave. & El Camino Real	Mission Ave. & Airport Rd.	Oceanside Transit Center
8	7	6	5	4	3	2	1
–	–	4:05	4:13	4:21	4:26	4:33	4:43a
5:06	5:11	5:22	5:30	5:38	5:43	5:50	6:00
5:36	5:41	5:52	6:00	6:08	6:15	6:22	6:32
6:06	6:12	6:24	6:33	6:41	6:48	6:55	7:07
6:36	6:42	6:55	7:04	7:12	7:19	7:27	7:41
–	–	7:20	7:29	7:37	7:44	7:52	8:06
7:06	7:13	7:30	7:39	7:47	7:54	8:02	8:16
7:36	7:43	8:00	8:09	8:17	8:24	8:32	8:46
8:06	8:13	8:26	8:34	8:42	8:49	8:57	9:10
8:36	8:42	8:55	9:02	9:10	9:16	9:23	9:36
9:06	9:12	9:25	9:32	9:40	9:46	9:53	10:06
9:36	9:42	9:55	10:02	10:10	10:16	10:23	10:36
10:06	10:12	10:25	10:34	10:42	10:48	10:55	11:08
10:36	10:42	10:55	11:04	11:12	11:18	11:25	11:38
11:06	11:12	11:25	11:34	11:42	11:48	11:55	**12:09p**
11:36	11:42	11:55	**12:04**	**12:12**	**12:18**	**12:25**	**12:39**
12:06	**12:12**	**12:25**	**12:34**	**12:43**	**12:49**	**12:56**	**1:10**
12:36	**12:42**	**12:55**	**1:04**	**1:13**	**1:19**	**1:26**	**1:40**
1:06	**1:13**	**1:26**	**1:35**	**1:44**	**1:51**	**1:58**	**2:10**
1:36	**1:43**	**1:56**	**2:05**	**2:14**	**2:21**	**2:28**	**2:40**
2:06	**2:13**	**2:27**	**2:36**	**2:45**	**2:52**	**2:59**	**3:12**
2:36	**2:45**	**3:03**	**3:13**	**3:22**	**3:30**	**3:38**	**3:51**
3:06	**3:14**	**3:32**	**3:42**	**3:51**	**3:58**	**4:06**	4:19
3:36	**3:44**	**4:02**	**4:12**	**4:21**	**4:28**	**4:35**	**4:48**
4:06	**4:14**	**4:32**	**4:42**	**4:51**	**4:58**	**5:05**	**5:18**
4:36	**4:44**	**5:02**	**5:12**	**5:21**	**5:28**	**5:34**	**5:47**
5:06	**5:14**	**5:32**	**5:42**	**5:51**	**5:57**	**6:03**	**6:15**
5:36	**5:44**	**6:01**	**6:11**	**6:20**	**6:26**	**6:32**	**6:43**
6:06	**6:13**	**6:28**	**6:36**	**6:44**	**6:50**	**6:56**	**7:08**
6:36	**6:43**	**6:57**	**7:05**	**7:13**	**7:19**	**7:25**	**7:37**
7:06	**7:13**	**7:27**	**7:34**	**7:42**	**7:47**	**7:53**	**8:05**
7:36	**7:43**	**7:57**	**8:04**	**8:12**	**8:17**	**8:23**	**8:35**
8:05	**8:12**	**8:24**	**8:31**	**8:39**	**8:44**	**8:49**	**8:59**

Please note, BREEZE "school tripper" bus service only runs while schools are in session for in-person learning and are subject to change based on bell times. NCTD will update trip planning applications and GoNCTD.com when this service returns.

Tenga en cuenta que el servicio de autobús "school tripper" de BREEZE solo funciona mientras las escuelas se encuentren abiertas para clases presenciales y está sujeto a cambios en función de los horarios de entrada y salida. El NCTD actualizará las aplicaciones de planificación de viaje y GoNCTD.com cuando el sevicio se reanude.

303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Westbound to Oceanside
Lunes a Viernes • Dirección hacia el oeste a Oceanside

Vista Transit Center	N. Santa Fe & Bobier Dr.	Town Center North	San Luis Rey Transit Center	Douglas Dr. & N. River Rd.	Mission Ave. & El Camino Real	Mission Ave. & Airport Rd.	Oceanside Transit Center
8	**7**	**6**	**5**	**4**	**3**	**2**	**1**
8:35	8:42	8:54	9:01	9:09	9:14	9:19	9:29
9:06	9:12	9:24	9:31	9:37	9:42	9:47	9:57
10:08	10:13	10:24	10:30	10:36	10:41	10:46	10:55

303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday & Sunday
Eastbound to Vista

Sábado y Domingo • Dirección hacia el este a Vista

Oceanside Transit Center	Mission Ave. & Airport Rd.	Mission Ave. & El Camino Real	Douglas Dr. & N. River Rd.	San Luis Rey Transit Center	Town Center North	N. Santa Fe & Bobier Dr.	Vista Transit Center
1	2	3	4	5	6	7	8
4:33	4:40	4:44	4:47	4:53	4:59a	–	–
5:07	5:15	5:19	5:22	5:28	5:34	5:44	5:51
5:34	5:42	5:46	5:51	5:57	6:04	6:14	6:21
6:03	6:12	6:16	6:21	6:27	6:34	6:44	6:51
6:31	6:40	6:44	6:49	6:57	7:04	7:14	7:21
6:58	7:07	7:11	7:17	7:25	7:32	7:43	7:51
7:25	7:35	7:39	7:46	7:54	8:02	8:13	8:21
7:55	8:05	8:09	8:16	8:24	8:32	8:43	8:51
8:24	8:35	8:39	8:46	8:54	9:02	9:13	9:21
8:52	9:03	9:09	9:16	9:24	9:32	9:43	9:51
9:21	9:32	9:38	9:45	9:53	10:02	10:13	10:21
9:51	10:02	10:08	10:15	10:23	10:32	10:43	10:51
10:17	10:28	10:35	10:43	10:52	11:02	11:13	11:21
10:45	10:56	11:04	11:12	11:21	11:31	11:42	11:51
11:12	11:23	11:31	11:39	11:50	**12:01**	**12:12**	**12:21p**
11:42	11:53	**12:01**	**12:09**	**12:20**	**12:31**	**12:42**	**12:51**
12:12	**12:23**	**12:31**	**12:39**	**12:50**	**1:01**	**1:12**	**1:21**
12:39	**12:51**	**1:00**	**1:08**	**1:19**	**1:30**	**1:42**	**1:51**
1:09	**1:21**	**1:30**	**1:38**	**1:49**	**2:00**	**2:12**	**2:21**
1:39	**1:51**	**2:00**	**2:08**	**2:19**	**2:30**	**2:42**	**2:51**
2:10	**2:22**	**2:30**	**2:38**	**2:49**	**3:00**	**3:12**	**3:21**
2:40	**2:52**	**3:00**	**3:08**	**3:19**	**3:30**	**3:42**	**3:51**
3:10	**3:22**	**3:30**	**3:38**	**3:49**	**4:00**	**4:12**	**4:21**
3:40	**3:52**	**4:00**	**4:08**	**4:19**	**4:30**	**4:42**	**4:51**
4:12	**4:24**	**4:32**	**4:40**	**4:51**	**5:01**	**5:12**	**5:21**
4:43	**4:55**	**5:02**	**5:10**	**5:21**	**5:31**	**5:42**	**5:51**
5:14	**5:26**	**5:33**	**5:41**	**5:52**	**6:02**	**6:13**	**6:21**
5:44	**5:56**	**6:03**	**6:11**	**6:22**	**6:32**	**6:43**	**6:51**
6:15	**6:27**	**6:34**	**6:41**	**6:52**	**7:02**	**7:13**	**7:21**
6:46	**6:58**	**7:04**	**7:11**	**7:22**	**7:32**	**7:43**	**7:51**
7:21	**7:32**	**7:37**	**7:44**	**7:55**	**8:04**	–	–
7:50	**8:01**	**8:06**	**8:13**	**8:24**	**8:33**	**8:44**	**8:51**
8:25	**8:36**	**8:41**	**8:48**	**8:56**	**9:04**	–	–
8:58	**9:08**	**9:13**	**9:19**	**9:26**	**9:34**	**9:44**	**9:51**
9:32	**9:41**	**9:46**	**9:51**	**9:58**	**10:05**	–	–
10:01	**10:10**	**10:15**	**10:20**	**10:27**	**10:34**	**10:44**	**10:51**
10:34	**10:42**	**10:46**	**10:51**	**10:58**	**11:04**	–	–
11:04	**11:11**	**11:15**	**11:20**	**11:27**	**11:33**	–	–
11:35	**11:42**	**11:46**	**11:51**	**11:58**	12:04a	–	–

303 Oceanside to Vista via Town Center North

Oceanside a Vista vía Town Center North

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday & Sunday
Westbound to Oceanside
Sábado y Domingo • Dirección hacia el oeste a Oceanside

Vista Transit Center	N. Santa Fe & Bobier Dr.	Town Center North	San Luis Rey Transit Center	Douglas Dr. & N. River Rd.	Mission Ave. & El Camino Real	Mission Ave. & Airport Rd.	Oceanside Transit Center
8	**7**	**6**	**5**	**4**	**3**	**2**	**1**
6:06	6:11	6:22	6:30	6:38	6:43	6:50	7:00a
6:36	6:41	6:53	7:01	7:09	7:14	7:21	7:31
7:06	7:12	7:24	7:32	7:40	7:45	7:52	8:04
7:36	7:42	7:54	8:02	8:10	8:15	8:22	8:34
8:06	8:12	8:24	8:32	8:40	8:46	8:53	9:05
8:36	8:42	8:54	9:02	9:10	9:16	9:23	9:35
9:06	9:12	9:25	9:33	9:41	9:48	9:55	10:08
9:36	9:42	9:55	10:03	10:11	10:18	10:25	10:38
10:06	10:12	10:26	10:34	10:43	10:51	10:58	11:11
10:36	10:42	10:56	11:04	11:13	11:21	11:28	11:41
11:06	11:12	11:26	11:34	11:43	11:51	11:58	**12:11p**
11:36	11:42	11:56	**12:04**	**12:13**	**12:21**	**12:28**	**12:41**
12:06	**12:12**	**12:27**	**12:35**	**12:44**	**12:52**	**12:59**	**1:12**
12:36	**12:42**	**12:57**	**1:05**	**1:14**	**1:22**	**1:29**	**1:42**
1:06	**1:12**	**1:27**	**1:35**	**1:43**	**1:51**	**1:58**	**2:11**
1:36	**1:42**	**1:57**	**2:05**	**2:13**	**2:21**	**2:28**	**2:41**
2:06	**2:12**	**2:27**	**2:35**	**2:43**	**2:51**	**2:58**	**3:11**
2:36	**2:42**	**2:57**	**3:05**	**3:13**	**3:21**	**3:28**	**3:41**
3:06	**3:12**	**3:27**	**3:35**	**3:43**	**3:51**	**3:58**	**4:11**
3:36	**3:42**	**3:57**	**4:05**	**4:13**	**4:21**	**4:28**	**4:41**
4:06	**4:12**	**4:27**	**4:35**	**4:43**	**4:51**	**4:58**	**5:11**
4:36	**4:42**	**4:57**	**5:05**	**5:13**	**5:21**	**5:28**	**5:41**
5:06	**5:13**	**5:28**	**5:36**	**5:44**	**5:51**	**5:58**	**6:11**
5:36	**5:43**	**5:58**	**6:06**	**6:14**	**6:21**	**6:28**	**6:41**
6:06	**6:12**	**6:27**	**6:35**	**6:43**	**6:49**	**6:56**	**7:08**
6:36	**6:42**	**6:55**	**7:03**	**7:11**	**7:17**	**7:24**	**7:36**
7:06	**7:12**	**7:25**	**7:33**	**7:41**	**7:47**	**7:53**	**8:05**
7:36	**7:42**	**7:55**	**8:03**	**8:11**	**8:17**	**8:23**	**8:35**
8:06	**8:12**	**8:25**	**8:33**	**8:41**	**8:47**	**8:53**	**9:05**
9:06	**9:12**	**9:23**	**9:31**	**9:38**	**9:43**	**9:48**	**9:59**
10:06	**10:11**	**10:22**	**10:30**	**10:36**	**10:41**	**10:46**	**10:55**

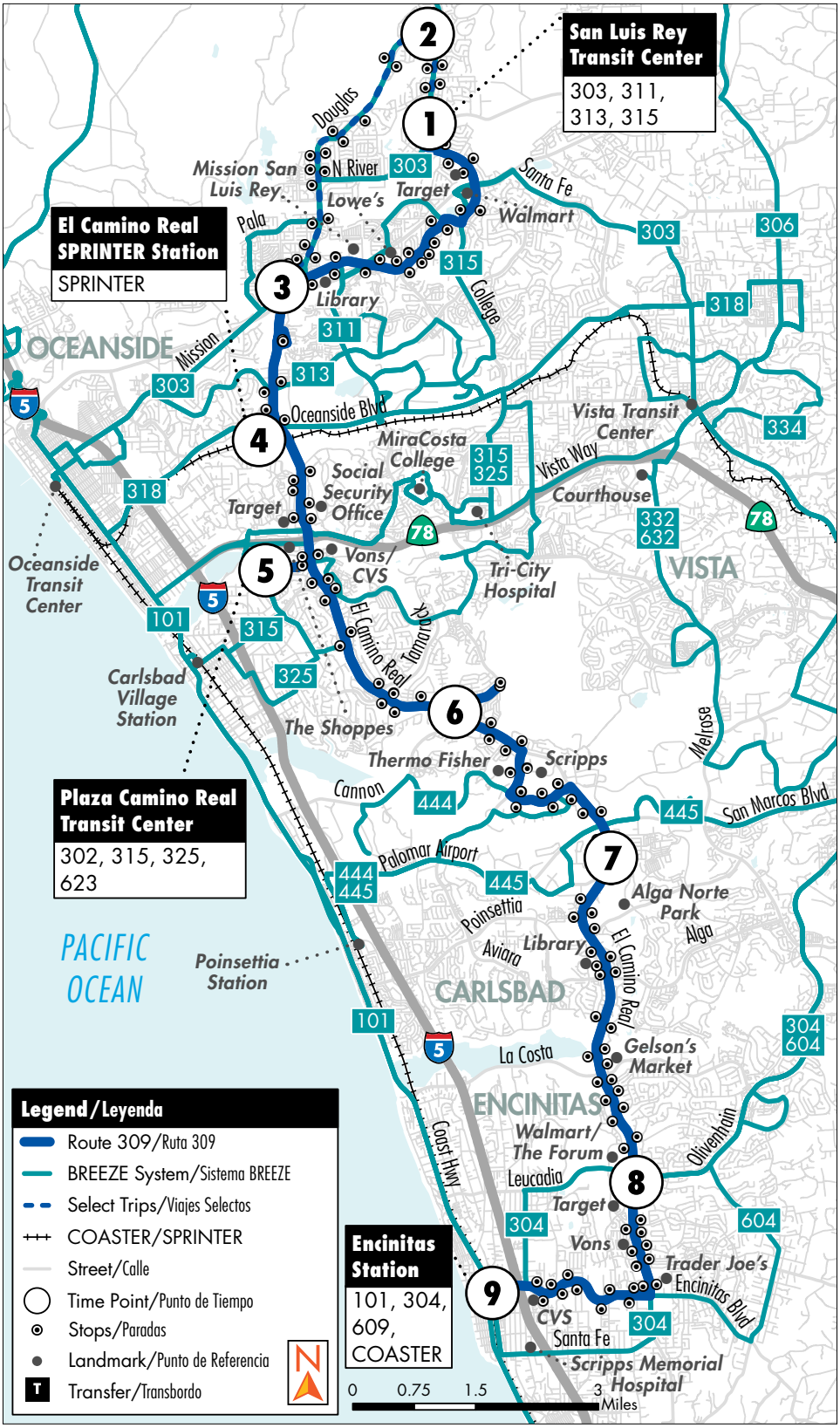
309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

M-F • SA • SU
L-V • SÁ • DO

Destinations/Destinos

- Encinitas City Hall
- Plaza Camino Real
- El Camino Real SPRINTER Station
- The Shoppes at Carlsbad
- The Forum Carlsbad
- San Diego Botanic Gardens
- Viasat
- Social Security Administration
- McClellan Palomar Airport



309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Southbound to Encinitas
Lunes a Viernes • Dirección hacia el sur a Encinitas

San Luis Rey Transit Center	Douglas Dr. & Vandegrift Bl.	Mission Ave. & El Camino Real	El Camino Real Station	Plaza Camino Real	El Camino Real & Cannon Rd.	El Camino Real & Gateway Rd.	El Camino Real & Leucadia Bl.	Encinitas Station
1	2	3	4	5	6	7	8	9
4:08	–	4:19	4:26	4:35	4:44	4:53	5:03	5:17a
4:37	–	4:48	4:56	5:05	5:14	5:24	5:34	5:48
5:06	–	5:17	5:26	5:35	5:44	5:54	6:04	6:18
5:30	–	5:42	5:51	6:00	6:09	6:19	6:30	6:47
5:59	–	6:12	6:21	6:30	6:41	6:52	7:05	7:25
6:29	–	6:42	6:51	7:00	7:11	7:24	7:38	8:00
6:57		7:12	7:21	7:32	7:43	7:56	8:10	8:32
7:27		7:42	7:51	8:02	8:13	8:26	8:41	9:03
7:57	–	8:12	8:21	8:32	8:43	8:54	9:09	9:29
8:27	–	8:42	8:51	9:02	9:13	9:24	9:38	9:58
8:54	8:58	9:08	9:21	9:33	9:44	9:53	10:07	10:27
9:27	–	9:42	9:51	10:03	10:14	10:23	10:37	10:57
9:57	–	10:12	10:21	10:33	10:44	10:53	11:07	11:27
10:27	–	10:42	10:51	11:04	11:15	11:24	11:38	11:58
10:54	10:58	11:08	11:21	11:34	11:45	11:54	**12:09**	**12:30p**
11:25	–	11:41	11:51	**12:04**	**12:15**	**12:24**	**12:39**	**1:00**
11:55	–	**12:11**	**12:21**	**12:34**	**12:46**	**12:55**	**1:10**	**1:31**
12:25	**–**	**12:41**	**12:51**	**1:04**	**1:16**	**1:25**	**1:40**	**2:01**
12:55	**–**	**1:11**	**1:21**	**1:34**	**1:46**	**1:55**	**2:10**	**2:31**
1:24	**1:28**	**1:38**	**1:51**	**2:04**	**2:16**	**2:25**	**2:40**	**3:01**
1:55	**–**	**2:11**	**2:21**	**2:34**	**2:46**	**2:55**	**3:10**	**3:31**
2:25	**–**	**2:41**	**2:51**	**3:05**	**3:17**	**3:26**	**3:41**	**4:02**
2:55	**–**	**3:11**	**3:21**	**3:35**	**3:47**	**3:56**	**4:11**	**4:32**
3:24	**–**	**3:40**	**3:51**	**4:04**	**4:16**	**4:25**	**4:40**	**5:01**
3:54	**–**	**4:10**	**4:21**	**4:34**	**4:46**	**4:55**	**5:10**	**5:31**
4:24	**–**	**4:40**	**4:51**	**5:04**	**5:16**	**5:25**	**5:40**	**6:01**
4:54	**–**	**5:10**	**5:21**	**5:34**	**5:46**	**5:55**	**6:08**	**6:29**
5:25	**–**	**5:41**	**5:51**	**6:03**	**6:15**	**6:24**	**6:37**	**6:54**
6:28	**–**	**6:42**	**6:51**	**7:02**	**7:14**	**7:22**	**7:35**	**7:52**
7:28	**–**	**7:42**	**7:51**	**8:02**	**8:12**	**8:20**	**8:31**	**8:47**
8:29	**–**	**8:42**	**8:51**	**9:01**	**9:11**	**9:19**	**9:29**	**9:44**

309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Northbound to Oceanside
Lunes a Viernes • Dirección hacia el norte a Oceanside

Encinitas Station	El Camino Real & Leucadia Bl.	El Camino Real & Gateway Rd.	El Camino Real & Cannon Rd.	Plaza Camino Real	El Camino Real Station	Mission Ave. & El Camino Real	Douglas Dr. & Vandegrift Bl.	San Luis Rey Transit Center
9	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
5:45	5:56	6:06	6:15	6:25	6:36	6:47	–	7:03a
6:10	6:22	6:32	6:45	6:55	7:06	7:17	–	7:33
6:35	6:48	7:00	7:13	7:25	7:36	7:47	–	8:03
7:06	7:19	7:31	7:43	7:55	8:06	8:17	–	8:33
7:32	7:47	8:00	8:11	8:23	8:36	8:47	–	9:03
8:02	8:17	8:30	8:41	8:53	9:06	9:17	–	9:33
8:34	8:49	9:01	9:12	9:23	9:36	9:49	9:59	10:05
9:04	9:19	9:31	9:42	9:53	10:06	10:17	–	10:34
9:34	9:49	10:01	10:12	10:23	10:36	10:47	–	11:04
10:03	10:19	10:31	10:42	10:53	11:06	11:17	–	11:36
10:32	10:48	11:00	11:11	11:22	11:36	11:47	–	**12:06p**
11:02	11:18	11:30	11:41	11:52	**12:06**	**12:19**	**12:29**	**12:35**
11:30	11:46	11:58	**12:10**	**12:22**	**12:36**	**12:47**	**–**	**1:06**
12:00	**12:16**	**12:28**	**12:40**	**12:52**	**1:06**	**1:17**	**–**	**1:36**
12:30	**12:46**	**12:58**	**1:10**	**1:22**	**1:36**	**1:47**	**–**	**2:08**
12:57	**1:13**	**1:25**	**1:38**	**1:50**	**2:06**	**2:17**	**–**	**2:38**
1:25	**1:42**	**1:55**	**2:08**	**2:20**	**2:36**	**2:48**	**–**	**3:09**
1:54	**2:11**	**2:24**	**2:38**	**2:50**	**3:06**	**3:19**	**–**	**3:40**
2:18	**2:36**	**2:51**	**3:05**	**3:20**	**3:36**	**3:49**	**–**	**4:10**
2:47	**3:05**	**3:20**	**3:35**	**3:50**	**4:06**	**4:21**	**–**	**4:42**
3:16	**3:35**	**3:50**	**4:05**	**4:20**	**4:36**	**4:51**	**–**	**5:12**
3:46	**4:05**	**4:20**	**4:35**	**4:50**	**5:06**	**5:21**	**–**	**5:42**
4:17	**4:35**	**4:50**	**5:07**	**5:20**	**5:36**	**5:51**	**–**	**6:11**
4:47	**5:05**	**5:20**	**5:37**	**5:50**	**6:06**	**6:21**	**–**	**6:41**
5:18	**5:37**	**5:51**	**6:06**	**6:19**	**6:35**	**6:47**	**–**	**7:06**
5:52	**6:09**	**6:23**	**6:37**	**6:50**	**7:06**	**7:18**	**–**	**7:37**
6:25	**6:41**	**6:54**	**7:07**	**7:20**	**7:36**	**7:47**	**–**	**8:05**
7:37	**7:51**	**8:03**	**8:13**	**8:23**	**8:36**	**8:47**	**–**	**9:04**
8:41	**8:53**	**9:04**	**9:13**	**9:23**	**9:36**	**9:47**	**–**	**10:03**
9:43	**9:55**	**10:06**	**10:15**	**10:25**	**10:36**	**10:47**	**–**	**11:02**

309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday
Southbound to Encinitas
Sábado • Dirección hacia el sur a Encinitas

San Luis Rey Transit Center	Mission Ave. & El Camino Real	El Camino Real Station	Plaza Camino Rea	El Camino Real & Cannon Rd.	El Camino Real & Gateway Rd.	El Camino Real & Leucadia Bl.	Encinitas Station
1	3	4	5	6	7	8	9
4:58	5:11	5:21	5:38	5:49	5:57	6:09	6:24a
5:58	6:11	6:21	6:38	6:49	6:58	7:10	7:28
6:57	7:11	7:21	7:38	7:49	7:58	8:10	8:28
7:57	8:11	8:21	8:38	8:49	8:58	9:10	9:28
8:56	9:11	9:21	9:38	9:49	9:58	10:10	10:28
9:26	9:41	9:51	10:08	10:19	10:28	10:40	10:58
9:56	10:11	10:21	10:38	10:49	10:58	11:10	11:29
10:25	10:41	10:51	11:08	11:19	11:28	11:40	11:59
10:55	11:11	11:21	11:38	11:49	11:58	**12:10**	**12:29p**
11:25	11:41	11:51	**12:08**	**12:19**	**12:28**	**12:40**	**12:59**
11:55	**12:11**	**12:21**	**12:38**	**12:49**	**12:58**	**1:10**	**1:29**
12:24	**12:41**	**12:51**	**1:08**	**1:19**	**1:28**	**1:40**	**1:59**
12:54	**1:11**	**1:21**	**1:38**	**1:49**	**1:58**	**2:10**	**2:29**
1:24	**1:41**	**1:51**	**2:08**	**2:19**	**2:28**	**2:40**	**2:59**
1:55	**2:11**	**2:21**	**2:38**	**2:49**	**2:58**	**3:10**	**3:29**
2:25	**2:41**	**2:51**	**3:08**	**3:18**	**3:27**	**3:39**	**3:58**
2:55	**3:11**	**3:21**	**3:38**	**3:48**	**3:57**	**4:09**	**4:27**
3:25	**3:41**	**3:51**	**4:08**	**4:18**	**4:27**	**4:39**	**4:57**
3:54	**4:10**	**4:21**	**4:38**	**4:48**	**4:57**	**5:09**	**5:27**
4:24	**4:40**	**4:51**	**5:08**	**5:18**	**5:27**	**5:39**	**5:56**
4:55	**5:10**	**5:21**	**5:38**	**5:48**	**5:57**	**6:09**	**6:24**
5:25	**5:40**	**5:51**	**6:08**	**6:18**	**6:27**	**6:39**	**6:54**
5:55	**6:10**	**6:21**	**6:38**	**6:48**	**6:57**	**7:09**	**7:23**
6:56	**7:10**	**7:21**	**7:38**	**7:48**	**7:57**	**8:09**	**8:23**
7:56	**8:10**	**8:21**	**8:38**	**8:48**	**8:57**	**9:09**	**9:23**
8:57	**9:10**	**9:21**	**9:38**	**9:47**	**9:54**	**10:05**	**10:17**
10:05	**10:16**	**10:26**	**10:43**	**10:52**	**10:59**	**11:09**	**11:21**

309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday
Northbound to Oceanside
Sábado • Dirección hacia el norte a Oceanside

Encinitas Station	El Camino Real & Leucadia Bl.	El Camino Real & Gateway Rd.	El Camino Real & Cannon Rd.	Plaza Camino Real	El Camino Real Station	Mission Ave. & El Camino Real	San Luis Rey Transit Center
9	**8**	**7**	**6**	**5**	**4**	**3**	**1**
5:15	5:26	5:35	5:44	5:55	6:06	6:17	6:30a
6:15	6:26	6:35	6:44	6:55	7:06	7:17	7:30
7:13	7:25	7:35	7:44	7:55	8:06	8:17	8:32
8:10	8:23	8:34	8:43	8:54	9:06	9:19	9:34
8:39	8:53	9:04	9:13	9:24	9:36	9:49	10:04
9:08	9:22	9:33	9:43	9:54	10:06	10:19	10:34
9:37	9:52	10:03	10:13	10:24	10:36	10:49	11:04
10:07	10:22	10:33	10:43	10:54	11:06	11:19	11:34
10:36	10:52	11:03	11:13	11:24	11:36	11:49	**12:06p**
11:06	11:22	11:33	11:43	11:54	**12:06**	**12:19**	**12:36**
11:37	11:53	**12:03**	**12:13**	**12:24**	**12:36**	**12:49**	**1:06**
12:07	**12:23**	**12:33**	**12:43**	**12:54**	**1:06**	**1:19**	**1:36**
12:37	**12:53**	**1:03**	**1:13**	**1:24**	**1:36**	**1:49**	**2:06**
1:06	**1:22**	**1:32**	**1:42**	**1:54**	**2:06**	**2:19**	**2:36**
1:35	**1:51**	**2:01**	**2:11**	**2:24**	**2:36**	**2:49**	**3:06**
2:03	**2:19**	**2:29**	**2:39**	**2:52**	**3:06**	**3:19**	**3:36**
2:32	**2:48**	**2:59**	**3:09**	**3:22**	**3:36**	**3:49**	**4:06**
3:02	**3:18**	**3:29**	**3:39**	**3:52**	**4:06**	**4:19**	**4:36**
3:32	**3:48**	**3:59**	**4:09**	**4:22**	**4:36**	**4:49**	**5:06**
4:02	**4:18**	**4:29**	**4:39**	**4:52**	**5:06**	**5:19**	**5:36**
4:32	**4:48**	**4:59**	**5:09**	**5:22**	**5:36**	**5:49**	**6:06**
5:04	**5:20**	**5:31**	**5:41**	**5:52**	**6:06**	**6:19**	**6:36**
5:34	**5:50**	**6:01**	**6:11**	**6:22**	**6:36**	**6:49**	**7:06**
6:05	**6:20**	**6:31**	**6:41**	**6:52**	**7:06**	**7:19**	**7:35**
7:12	**7:26**	**7:37**	**7:46**	**7:57**	**8:11**	**8:23**	**8:37**
8:30	**8:44**	**8:54**	**9:03**	**9:14**	**9:26**	**9:38**	**9:52**
10:22	**10:34**	**10:44**	**10:53**	**11:04**	**11:16**	**11:27**	**11:41**

309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Sunday
Southbound to Encinitas
Domingo • Dirección hacia el sur a Encinitas

San Luis Rey Transit Center	Mission Ave. & El Camino Real	El Camino Real Station	Plaza Camino Real	El Camino Real & Cannon Rd.	El Camino Real & Gateway Rd.	El Camino Real & Leucadia Bl.	Encinitas Station
1	3	4	5	6	7	8	9
4:58	5:11	5:21	5:38	5:49	5:57	6:09	6:24a
5:58	6:11	6:21	6:38	6:49	6:58	7:10	7:28
6:57	7:11	7:21	7:38	7:49	7:58	8:10	8:28
7:57	8:11	8:21	8:38	8:49	8:58	9:10	9:28
8:56	9:11	9:21	9:38	9:49	9:58	10:10	10:28
9:56	10:11	10:21	10:38	10:49	10:58	11:10	11:29
10:55	11:11	11:21	11:38	11:49	11:58	**12:10**	**12:29p**
11:55	**12:11**	**12:21**	**12:38**	**12:49**	**12:58**	**1:10**	**1:29**
12:54	**1:11**	**1:21**	**1:38**	**1:49**	**1:58**	**2:10**	**2:29**
1:55	**2:11**	**2:21**	**2:38**	**2:49**	**2:58**	**3:10**	**3:29**
2:55	**3:11**	**3:21**	**3:38**	**3:48**	**3:57**	**4:09**	**4:27**
3:54	**4:10**	**4:21**	**4:38**	**4:48**	**4:57**	**5:09**	**5:27**
4:55	**5:10**	**5:21**	**5:38**	**5:48**	**5:57**	**6:09**	**6:24**
5:55	**6:10**	**6:21**	**6:38**	**6:48**	**6:57**	**7:09**	**7:23**
6:56	**7:10**	**7:21**	**7:38**	**7:48**	**7:57**	**8:09**	**8:23**
7:56	**8:10**	**8:21**	**8:38**	**8:48**	**8:57**	**9:09**	**9:23**
8:57	**9:10**	**9:21**	**9:38**	**9:47**	**9:54**	**10:05**	**10:17**
10:05	**10:16**	**10:26**	**10:43**	**10:52**	**10:59**	**11:09**	**11:21**

309 Oceanside to Encinitas via El Camino Real

Oceanside a Encinitas vía El Camino Real

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Sunday
Northbound to Oceanside
Domingo • Dirección hacia el norte a Oceanside

Encinitas Station	El Camino Real & Leucadia Bl.	El Camino Real & Gateway Rd.	El Camino Real & Cannon Rd.	Plaza Camino Real	El Camino Real Station	Mission Ave. & El Camino Real	San Luis Rey Transit Center
9	**8**	**7**	**6**	**5**	**4**	**3**	**1**
5:15	5:26	5:35	5:44	5:55	6:06	6:17	6:30a
6:15	6:26	6:35	6:44	6:55	7:06	7:17	7:30
7:13	7:25	7:35	7:44	7:55	8:06	8:17	8:32
8:10	8:23	8:34	8:43	8:54	9:06	9:19	9:34
9:08	9:22	9:33	9:43	9:54	10:06	10:19	10:34
10:07	10:22	10:33	10:43	10:54	11:06	11:19	11:34
11:06	11:22	11:33	11:43	11:54	**12:06**	**12:19**	**12:36p**
12:07	**12:23**	**12:33**	**12:43**	**12:54**	**1:06**	**1:19**	**1:36**
1:06	**1:22**	**1:32**	**1:42**	**1:54**	**2:06**	**2:19**	**2:36**
2:03	**2:19**	**2:29**	**2:39**	**2:52**	**3:06**	**3:19**	**3:36**
3:02	**3:18**	**3:29**	**3:39**	**3:52**	**4:06**	**4:19**	**4:36**
4:02	**4:18**	**4:29**	**4:39**	**4:52**	**5:06**	**5:19**	**5:36**
5:04	**5:20**	**5:31**	**5:41**	**5:52**	**6:06**	**6:19**	**6:36**
6:05	**6:20**	**6:31**	**6:41**	**6:52**	**7:06**	**7:19**	**7:35**
7:12	**7:26**	**7:37**	**7:46**	**7:57**	**8:11**	**8:23**	**8:37**
8:30	**8:44**	**8:54**	**9:03**	**9:14**	**9:26**	**9:38**	**9:52**
10:22	**10:34**	**10:44**	**10:53**	**11:04**	**11:16**	**11:27**	**11:41**

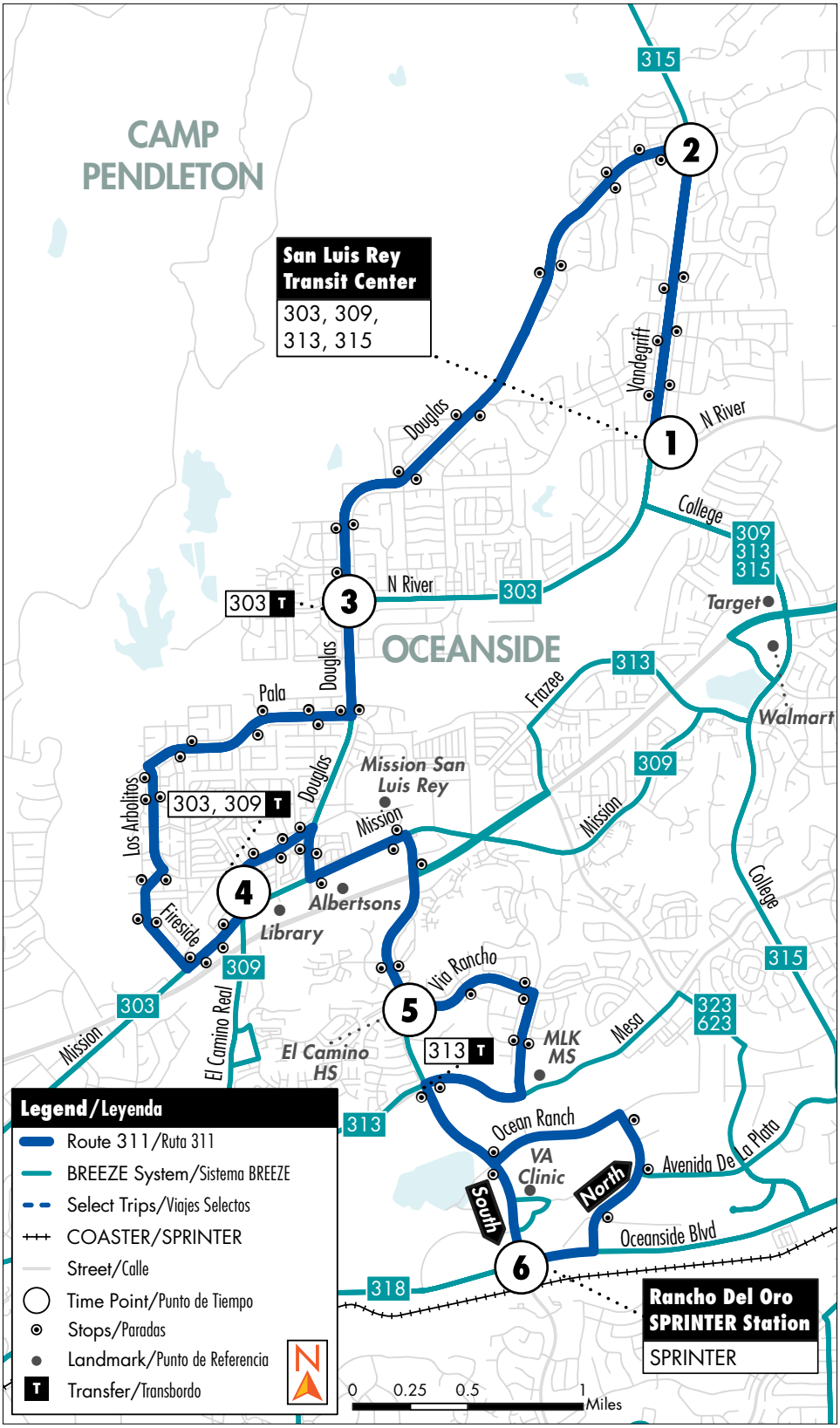
311

San Luis Rey Transit Center to Rancho Del Oro SPRINTER Station via Douglas Dr.

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

M-F
L-V

Destinations/Destinos
- El Camino High School
- Martin Luther King Jr. Middle School
- Ocean Ranch Corporate Centre
- Vista Community Clinic
- Mission San Luis Rey



311 San Luis Rey Transit Center to Rancho Del Oro SPRINTER Station via Douglas Dr.

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Southbound to Rancho Del Oro SPRINTER Station
Lunes a Viernes • Dirección hacia el sur a la Estación SPRINTER Rancho Del Oro

San Luis Rey Transit Center	Douglas Dr. & Vandegrift Bl.	Douglas Dr. & N. River Rd.	Mission Ave. & El Camino Real	Rancho Del Oro & Via Rancho Rd.	Rancho Del Oro SPRINTER Station
1	**2**	**3**	**4**	**5**	**6**
5:54	5:57	6:04	6:16	6:26	6:36a
6:20	6:24	6:33	6:45	6:59	7:11
7:01	7:04	7:13	7:25	7:37	7:48
7:20	7:23	7:31	7:43	7:56	8:06
7:34	7:37	7:46	7:58	8:10	8:21
3:24	**3:27**	**3:34**	**3:47**	**3:57**	**4:06p**
4:22	**4:25**	**4:32**	**4:45**	**4:56**	**5:06**
5:24	**5:27**	**5:34**	**5:47**	**5:57**	**6:06**

Monday - Friday
Northbound to San Luis Rey Transit Center
Lunes a Viernes • Dirección hacia el norte al Centro de Tránsito San Luis Rey

Rancho Del Oro SPRINTER Station	Rancho Del Oro & Via Rancho Rd.	Mission Ave. & El Camino Real	Douglas Dr. & N. River Rd.	Douglas Dr. & Vandegrift Bl.	San Luis Rey Transit Center
6	**5**	**4**	**3**	**2**	**1**
–	–	–	5:00	5:07	5:12a
–	–	5:53	6:04	6:12	6:18
6:49	7:01	7:10	7:23	7:31	7:37
7:49	8:00	8:09	8:22	8:29	8:35
***1:40**	***1:58**	***2:09**	***2:23**	***2:31**	***2:39p**
2:19	**2:37**	**2:48**	**3:02**	**3:10**	**3:18**
****2:42**	****3:00**	****3:11**	****3:25**	****3:33**	****3:41**
3:19	**3:31**	**3:40**	**3:53**	**4:01**	**4:09**
4:19	**4:30**	**4:39**	**4:52**	**5:00**	**5:07**
5:19	**5:30**	**5:39**	**5:52**	**6:00**	**6:06**

* **Operates Monday only.**
Opera solamente los Lunes.

** **Operates Tuesday, Wednesday, Thursday, and Friday.**
Opera Martes, Miércoles, Jueves y Viernes.

Route 311 does not operate on Saturdays, Sundays, or holidays.
La Ruta 311 no opera los sábados, domingos o en días festivos.

Please note, BREEZE "school tripper" bus service only runs while El Camino High School and/or MLK Middle School are in session for in-person learning and are subject to change based on bell times. NCTD will update trip planning applications and GoNCTD.com if this service changes.

Tenga en cuenta que el servicio de autobús "school tripper" del BREEZE solo funciona mientras El Camino High School y/o MLK Middle School se encuentren abiertas para clases presenciales y está sujeto a cambios en función de los horarios de entrada y salida. El NCTD actualizará las aplicaciones de planificación de viaje y GoNCTD.com cuando si este servicio cambia.

313

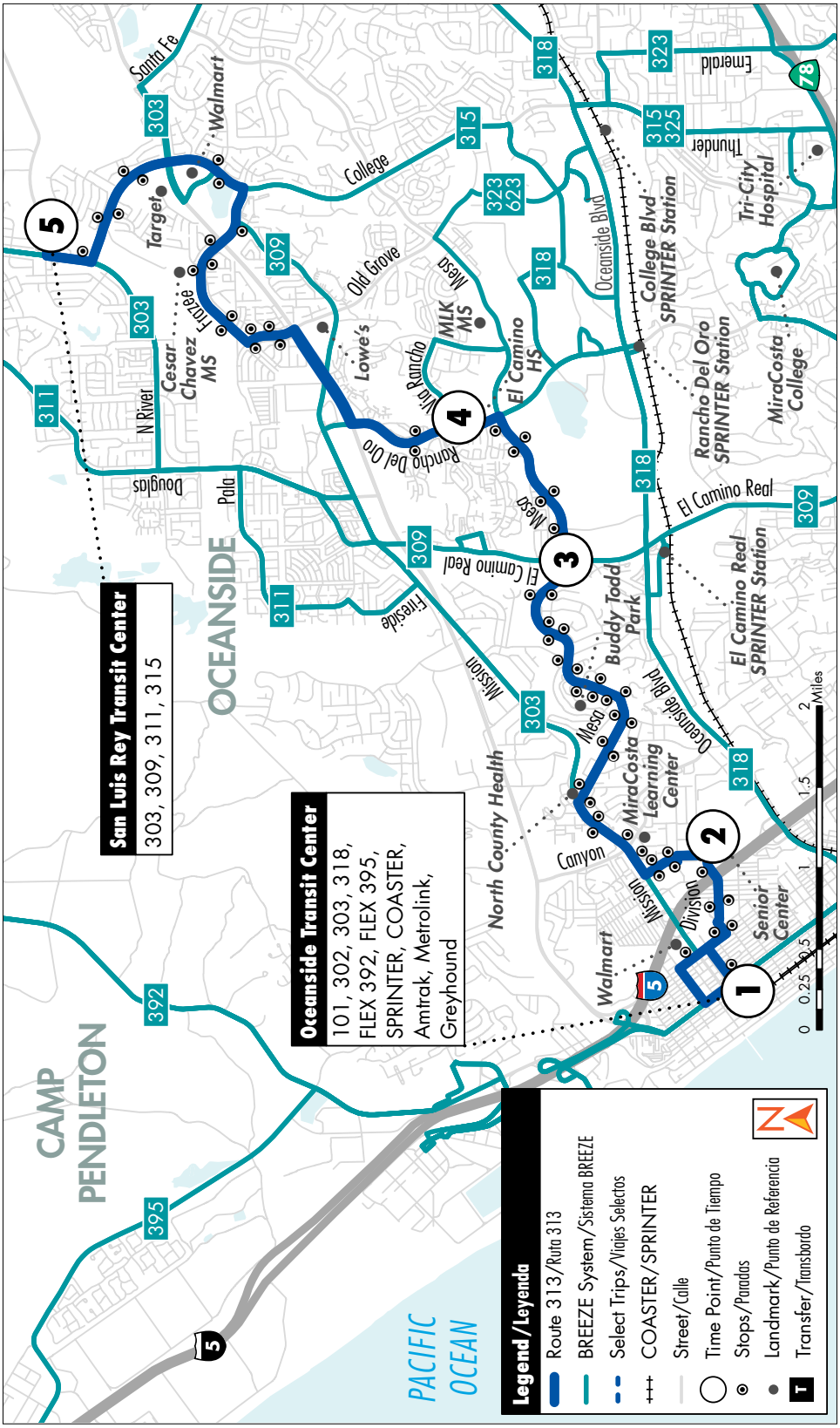
Oceanside Transit Center to San Luis Rey Transit Center via Mesa Dr.

Centro de Tránsito Oceanside al Centro de Tránsito San Luis Rey vía Mesa Dr.

M-F
L-V

Destinations/Destinos

- Oceanside Pier & Beach
- El Camino High School
- Jefferson Middle School
- Mission San Luis Rey
- Buddy Todd Park
- Ivey Ranch Park
- Oceanside Senior Center
- Boys and Girls Club



313 Oceanside Transit Center to San Luis Rey Transit Center via Mesa Dr.

Centro de Tránsito Oceanside al Centro de Tránsito San Luis Rey vía Mesa Dr.

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Eastbound to San Luis Rey Transit Center
Lunes a Viernes • Dirección hacia el este al Centro de Tránsito San Luis Rey

Oceanside Transit Center	Division St. & Country Club Ln.	Mesa Dr. & El Camino Real	Rancho Del Oro & Via Rancho Rd.	San Luis Rey Transit Center
1	**2**	**3**	**4**	**5**
6:33	6:38	6:48	6:53	7:08a
7:33	7:38	7:50	7:55	8:12
8:33	8:38	8:49	8:52	9:09
9:33	9:38	9:49	9:52	10:09
10:33	10:38	10:49	10:52	11:09
11:33	11:38	11:49	11:54	**12:12p**
12:33	**12:38**	**12:49**	**12:55**	**1:13**
1:33	**1:38**	**1:50**	**1:58**	**2:16**
2:33	**2:38**	**2:50**	**2:58**	**3:18**
–	–	–	***3:30**	***3:56**
3:33	**3:38**	**3:52**	**4:00**	**4:20**
4:33	**4:38**	**4:50**	**4:55**	**5:15**
5:33	**5:38**	**5:50**	**5:55**	**6:15**
6:33	**6:38**	**6:50**	**6:55**	**7:12**

* **Operates Monday, Tuesday, Thursday, and Friday.**
Opera Lunes, Martes, Jueves y Viernes.

Route 313 does not operate on Saturdays, Sundays, or holidays.
La Ruta 313 no opera los sábados, domingos o en días festivos.

Please note, BREEZE "school tripper" bus service only runs while El Camino High School is in session for in-person learning and are subject to change based on bell times. NCTD will update trip planning applications and GoNCTD.com if this service changes.

Tenga en cuenta que el servicio de autobús "school tripper" de BREEZE solo funciona mientras El Camino High School se encuentre abierta para clases presenciales y está sujeto a cambios en función de los horarios de entrada y salida. El NCTD actualizará las aplicaciones de planificación de viaje y GoNCTD.com si este servicio cambia.

313 Oceanside Transit Center to San Luis Rey Transit Center via Mesa Dr.

Centro de Tránsito Oceanside al Centro de Tránsito San Luis Rey vía Mesa Dr.

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Westbound to Oceanside Transit Center
Lunes a Viernes • Dirección hacia el oeste al Centro de Tránsito Oceanside

San Luis Rey Transit Center	Rancho Del Oro & Via Rancho Rd.	Mesa Dr. & El Camino Real	Division St. & Country Club Ln.	Oceanside Transit Center
5	**4**	**3**	**2**	**1**
5:46	6:00	6:03	6:15	6:23a
6:39	6:55	6:58	7:10	7:20
7:45	8:04	8:11	8:23	8:33
7:55	8:10	–	–	–
8:45	9:00	9:04	9:15	9:25
9:43	9:58	10:02	10:13	10:23
10:43	10:58	11:02	11:13	11:23
11:43	11:58	**12:02**	**12:13**	**12:23p**
12:42	**12:57**	**1:01**	**1:12**	**1:22**
1:40	**1:55**	**1:59**	**2:10**	**2:20**
2:40	**2:59**	**3:04**	**3:15**	**3:27**
3:40	**3:59**	**4:04**	**4:15**	**4:27**
4:41	**4:58**	**5:02**	**5:13**	**5:24**
5:41	**5:58**	**6:01**	**6:12**	**6:22**

Route 313 does not operate on Saturdays, Sundays, or holidays.
La Ruta 313 no opera los sábados, domingos o en días festivos.

Please note, BREEZE "school tripper" bus service only runs while El Camino High School is in session for in-person learning and are subject to change based on bell times. NCTD will update trip planning applications and GoNCTD.com if this service changes.

Tenga en cuenta que el servicio de autobús "school tripper" de BREEZE solo funciona mientras El Camino High School se encuentre abierta para clases presenciales y está sujeto a cambios en función de los horarios de entrada y salida. El NCTD actualizará las aplicaciones de planificación de viaje y GoNCTD.com si este servicio cambia.

315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

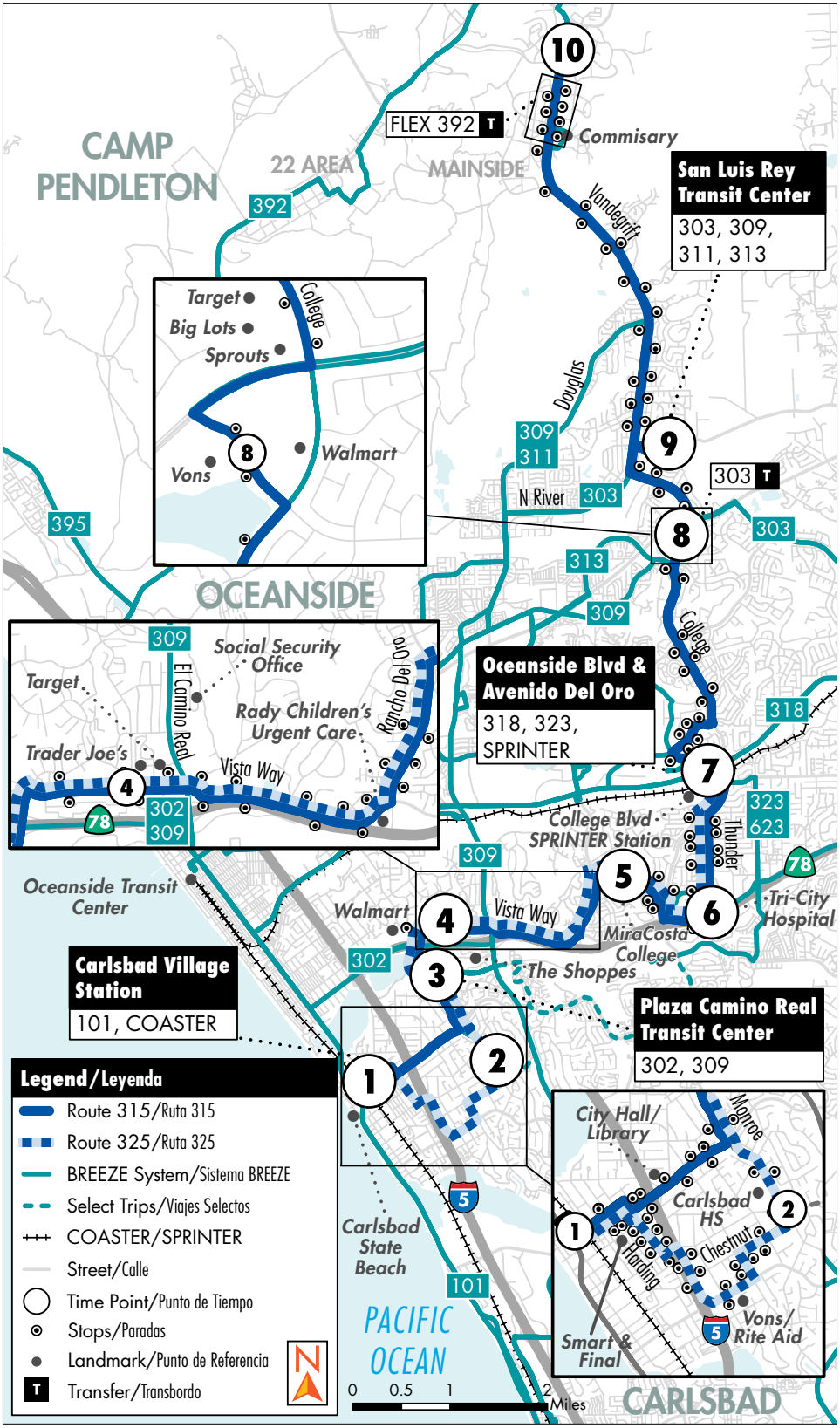
Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

M-F • SA • SU
L-V • SÁ • DO

M-F • SA
L-V • SÁ

Destinations/Destinos

- MiraCosta College
- Target
- Walmart
- Tri-City Medical Center
- The Shoppes at Carlsbad
- Carlsbad State Beach
- Camp Pendelton - Mainside



315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Northbound to 14 Area/College Blvd. SPRINTER Station
Lunes a Viernes • Dirección hacia el norte a 14 Area/College Blvd. Estación de SPRINTER

Route Ruta	Carlsbad Village Station	Chestnut & Monroe St. (Carlsbad HS)	Plaza Camino Real Transit Center	Vista Way & Via Esmarca	Mira Costa College	Thunder Dr. & Vista Way	Oceanside Bl. & Avenida Del Oro	Town Center North	San Luis Rey Transit Center	Vandegrift & 16th St.
	1	2	3	4	5	6	7	8	9	10
315	4:05	–	4:13	4:17	4:23	4:28	4:37	4:45	4:53	5:09a
315	5:02	–	5:11	5:15	5:22	5:28	5:37	5:45	5:54	6:11
315	5:58	–	6:07	6:11	6:18	6:24	6:34	6:42	6:51	7:08
325	6:14	6:27	6:33	6:37	6:45	6:52	7:04	–	–	–
315	6:51	–	7:03	7:07	7:15	7:22	7:34	7:44	7:53	8:10
325	7:10	7:26	7:33	7:37	7:45	7:52	8:04	–	–	–
315	7:48	–	8:00	8:06	8:15	8:22	8:34	8:44	8:53	9:10
325	8:06	8:23	8:30	8:35	8:44	8:51	9:04	–	–	–
315	8:48	–	9:00	9:06	9:15	9:22	9:34	9:44	9:53	10:10
325	9:06	9:23	9:30	9:36	9:45	9:52	10:04	–	–	–
315	9:48	–	10:00	10:06	10:15	10:22	10:34	10:44	10:53	11:10
325	10:06	10:23	10:30	10:36	10:45	10:52	11:04	–	–	–
315	10:45	–	10:59	11:05	11:14	11:21	11:34	11:44	11:53	**12:10p**
325	11:03	11:20	11:27	11:33	11:43	11:51	**12:04**	–	–	–
315	11:42	–	11:57	**12:03**	**12:13**	**12:21**	**12:34**	**12:44**	**12:53**	**1:10**
325	**12:02**	**12:19**	**12:27**	**12:33**	**12:43**	**12:51**	**1:04**	–	–	–
315	**12:42**	–	**12:57**	**1:03**	**1:13**	**1:21**	**1:34**	**1:44**	**1:53**	**2:10**
325	**1:02**	**1:19**	**1:27**	**1:33**	**1:43**	**1:51**	**2:04**	–	–	–
315	**1:40**	–	**1:55**	**2:01**	**2:11**	**2:19**	**2:32**	**2:45**	**2:54**	**3:11**
325	**2:00**	**2:17**	**2:25**	**2:31**	**2:41**	**2:49**	**3:02**	–	–	–

Route 325 Service
Servicio de la Ruta 325

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315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Northbound to 14 Area/College Blvd. SPRINTER Station
Lunes a Viernes • Dirección hacia el norte a 14 Area/College Blvd. Estación de SPRINTER

Route Ruta	Carlsbad Village Station	Chestnut & Monroe St. (Carlsbad HS)	Plaza Camino Real Transit Center	Vista Way & Via Esmarca	Mira Costa College	Thunder Dr. & Vista Way	Oceanside Bl. & Avenida Del Oro	Town Center North	San Luis Rey Transit Center	Vandegrift & 16th St.
	1	2	3	4	5	6	7	8	9	10
315	2:40	–	2:55	3:01	3:11	3:19	3:32	3:45	3:55	4:12
325	2:59	3:17	3:25	3:31	3:41	3:49	4:02	–	–	–
315	3:40	–	3:55	4:01	4:11	4:19	4:32	4:45	4:55	5:12
325	4:03	4:20	4:27	4:33	4:43	4:51	5:04	–	–	–
315	4:42	–	4:57	5:03	5:13	5:21	5:34	5:47	5:57	6:14
325	5:04	5:21	5:27	5:33	5:43	5:51	6:04	–	–	–
315	5:45	–	6:00	6:06	6:16	6:23	6:34	6:46	6:55	7:10
325	6:10	6:27	6:33	6:38	6:47	6:54	7:04	–	–	–
315	6:45	–	6:58	7:03	7:12	7:19	7:29	7:40	7:48	8:03
315	7:45	–	7:57	8:02	8:10	8:17	8:27	8:38	8:45	9:00
315	8:45	–	8:57	9:02	9:10	9:17	9:27	9:38	9:45	–

Route 325 Service
Servicio de la Ruta 325

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315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Southbound to Carlsbad Village Station
Lunes a Viernes • Dirección hacia el sur a la Estación Carlsbad Village

Route Ruta	Vandegrift & 16th St.	San Luis Rey Transit Center	Town Center North	Oceanside Bl. & Avenida Del Oro	Thunder Dr. & Vista Way	MiraCosta College	Vista Way & Via Esmarca	Plaza Camino Real Transit Center	Chestnut & Monroe St. (Carlsbad HS)	Carlsbad Village Station
	10	9	8	7	6	5	4	3	2	1
315	–	5:06	5:13	5:23	5:29	5:37	5:43	5:49	–	5:58a
315	5:22	5:36	5:43	5:53	5:59	6:08	6:14	6:20	–	6:29
325	–	–	–	6:23	6:30	6:40	6:46	6:52	6:58	7:09
315	6:20	6:34	6:43	6:53	7:00	7:10	7:16	7:22	–	7:32
325	–	–	–	7:23	7:30	7:40	7:47	7:55	8:00	8:14
315	7:16	7:31	7:41	7:53	8:00	8:10	8:17	8:24	–	8:34
325	–	–	–	8:23	8:31	8:41	8:48	8:56	9:00	9:13
315	8:16	8:31	8:41	8:53	9:01	9:11	9:18	9:26	–	9:36
325	–	–	–	9:23	9:31	9:41	9:48	9:56	10:00	10:13
315	9:16	9:31	9:41	9:53	10:01	10:11	10:18	10:26	–	10:36
325	–	–	–	10:23	10:31	10:41	10:48	10:56	11:01	11:14
315	10:16	10:31	10:41	10:53	11:01	11:11	11:18	11:26	–	11:36
325	–	–	–	11:23	11:31	11:41	11:49	11:57	**12:02**	**12:15p**
315	11:15	11:31	11:41	11:53	**12:01**	**12:11**	**12:18**	**12:26**	**–**	**12:36**
325	–	–	–	**12:23**	**12:31**	**12:41**	**12:49**	**12:57**	**1:02**	**1:15**
315	**12:15**	**12:31**	**12:41**	**12:53**	**1:01**	**1:11**	**1:19**	**1:27**	**–**	**1:37**
325	–	–	–	**1:23**	**1:31**	**1:41**	**1:49**	**1:58**	**2:04**	**2:19**
315	**1:13**	**1:31**	**1:41**	**1:53**	**2:01**	**2:11**	**2:19**	**2:28**	**–**	**2:38**
325	–	–	–	**2:23**	**2:31**	**2:42**	**2:50**	**2:59**	**3:04**	**3:21**
315	**2:12**	**2:30**	**2:41**	**2:53**	**3:01**	**3:12**	**3:20**	**3:29**	**–**	**3:39**

Route 325 Service
Servicio de la Ruta 325

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315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Monday - Friday
Southbound to Carlsbad Village Station
Lunes a Viernes • Dirección hacia el sur a la Estación Carlsbad Village

Route Ruta	Vandegrift & 16th St.	San Luis Rey Transit Center	Town Center North	Oceanside Bl. & Avenida Del Oro	Thunder Dr. & Vista Way	MiraCosta College	Vista Way & Via Esmarca	Plaza Camino Real Transit Center	Chestnut & Monroe St. (Carlsbad HS)	Carlsbad Village Station
	10	9	8	7	6	5	4	3	2	1
325	–	–	–	3:23	3:31	3:42	3:50	3:59	4:04	4:16
315	3:12	3:30	3:41	3:53	4:01	4:12	4:20	4:29	–	4:39
325	–	–	–	4:23	4:31	4:42	4:50	4:59	5:03	5:15
315	4:12	4:30	4:41	4:53	5:01	5:12	5:20	5:29	–	5:39
325	–	–	–	5:23	5:31	5:42	5:50	5:59	6:03	6:15
315	4:42	5:00	5:11	5:23	5:31	5:42	5:50	5:59	–	6:09
315	5:13	5:29	5:40	5:52	6:00	6:11	6:19	6:28	–	6:38
315	6:17	6:31	6:42	6:53	7:01	7:11	7:18	7:26	–	7:36
315	7:20	7:34	7:42	7:53	8:00	8:10	8:17	8:25	–	8:34
315	8:04	8:18	8:26	8:37	8:44	8:53	9:00	9:07	–	9:16

Route 325 Service
Servicio de la Ruta 325

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315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday
Northbound to 14 Area/College Blvd. SPRINTER Station
Sábado • Dirección hacia el norte a 14 Area/College Blvd. Estación de SPRINTER

Route Ruta	Carlsbad Village Station	Chestnut & Monroe St. (Carlsbad HS)	Plaza Camino Real Transit Center	Vista Way & Via Esmarca	MiraCosta College	Thunder Dr. & Vista Way	Oceanside Bl. & Avenida Del Oro	Town Center North	San Luis Rey Transit Center	Vandegrift & 16th St.
	1	2	3	4	5	6	7	8	9	10
315	6:58	–	7:08	7:11	7:19	7:25	7:35	7:45	7:54	8:10a
315	7:56	–	8:07	8:11	8:19	8:25	8:35	8:46	8:55	9:11
315	8:55	–	9:06	9:11	9:19	9:25	9:35	9:46	9:55	10:11
315	9:52	–	10:04	10:09	10:17	10:25	10:35	10:46	10:55	11:11
325	10:22	10:37	10:43	10:48	10:56	11:04	11:14	–	–	–
315	10:51	–	11:04	11:09	11:17	11:25	11:35	11:46	11:55	**12:11p**
315	11:51	–	**12:04**	**12:09**	**12:17**	**12:25**	**12:35**	**12:46**	**12:55**	**1:11**
315	**12:51**	–	**1:04**	**1:09**	**1:17**	**1:25**	**1:35**	**1:46**	**1:55**	**2:11**
325	**1:10**	**1:26**	**1:34**	**1:39**	**1:47**	**1:55**	**2:05**	–	–	–
315	**1:51**	–	**2:04**	**2:09**	**2:17**	**2:25**	**2:35**	**2:46**	**2:55**	**3:11**
315	**2:51**	–	**3:04**	**3:09**	**3:17**	**3:25**	**3:35**	**3:46**	**3:55**	**4:11**
315	**3:49**	–	**4:03**	**4:09**	**4:17**	**4:25**	**4:35**	**4:46**	**4:55**	**5:11**
325	**4:09**	**4:25**	**4:33**	**4:39**	**4:47**	**4:55**	**5:05**	–	–	–
315	**4:49**	–	**5:03**	**5:09**	**5:17**	**5:25**	**5:35**	**5:47**	**5:56**	**6:12**
315	**5:51**	–	**6:04**	**6:10**	**6:18**	**6:25**	**6:35**	**6:47**	**6:56**	**7:12**
325	**7:22**	**7:38**	**7:46**	**7:51**	**7:59**	**8:06**	**8:16**	–	–	–
315	**6:53**	–	**7:05**	**7:10**	**7:18**	**7:25**	**7:35**	**7:47**	**7:56**	**8:12**
315	**7:53**	–	**8:05**	**8:10**	**8:18**	**8:25**	**8:35**	**8:46**	**8:55**	**9:10**
315	**8:53**	–	**9:05**	**9:10**	**9:18**	**9:25**	**9:35**	**9:46**	**9:55**	**10:10**

Route 325 Service
Servicio de la Ruta 325

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315/325

Carlsbad Village Station to 14 Area/ College Blvd. SPRINTER Station

Carlsbad Village Station a 14 Area/College Blvd. Estación de SPRINTER

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Saturday
Southbound to Carlsbad Village Station
Sábado • Dirección hacia el sur a la Estación Carlsbad Village

Route Ruta	Vandegrift & 16th St.	San Luis Rey Transit Center	Town Center North	Oceanside Bl. & Avenida Del Oro	Thunder Dr. & Vista Way	MiraCosta College	Vista Way & Via Esmarca	Plaza Camino Real Transit Center	Chestnut & Monroe St. (Carlsbad HS)	Carlsbad Village Station
	10	9	8	7	6	5	4	3	2	1
315	6:21	6:33	6:40	6:50	6:56	7:04	7:10	7:18	–	7:27a
315	7:20	7:33	7:40	7:50	7:57	8:05	8:12	8:20	–	8:30
325	–	–	–	8:28	8:35	8:43	8:50	8:59	9:03	9:15
315	8:20	8:33	8:40	8:50	8:57	9:05	9:12	9:21	–	9:31
315	9:18	9:32	9:40	9:50	9:57	10:05	10:12	10:22	–	10:32
315	10:16	10:30	10:39	10:50	10:57	11:05	11:12	11:23	–	11:33
325	–	–	–	11:25	11:32	11:41	11:49	**12:00**	**12:04**	**12:16p**
315	11:16	11:30	11:39	11:50	11:57	**12:06**	**12:14**	**12:25**	–	**12:36**
315	**12:16**	**12:30**	**12:39**	**12:50**	**12:57**	**1:06**	**1:14**	**1:25**	–	**1:36**
315	**1:16**	**1:30**	**1:39**	**1:50**	**1:57**	**2:06**	**2:14**	**2:25**	–	**2:36**
325	–	–	–	**2:26**	**2:33**	**2:42**	**2:50**	**3:01**	**3:05**	**3:16**
315	**2:16**	**2:30**	**2:39**	**2:50**	**2:57**	**3:06**	**3:14**	**3:25**	–	**3:36**
315	**3:16**	**3:30**	**3:39**	**3:50**	**3:57**	**4:06**	**4:14**	**4:25**	–	**4:36**
325	**4:16**	**4:30**	**4:39**	**4:50**	**4:57**	**5:06**	**5:14**	**5:25**	–	**5:36**
325	–	–	–	**5:27**	**5:34**	**5:43**	**5:51**	**6:01**	**6:05**	**6:16**
315	**5:16**	**5:30**	**5:39**	**5:50**	**5:57**	**6:06**	**6:14**	**6:24**	–	**6:35**
315	**6:17**	**6:30**	**6:39**	**6:50**	**6:57**	**7:04**	**7:12**	**7:22**	–	**7:32**
315	**7:18**	**7:31**	**7:39**	**7:50**	**7:57**	**8:04**	**8:10**	**8:20**	–	**8:30**
315	**8:19**	**8:32**	**8:39**	**8:50**	**8:57**	**9:04**	**9:10**	**9:20**	–	**9:30**

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Servicio de la Ruta 325

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315 Carlsbad Village Station to 14 Area
Carlsbad Village Station a 14 Area

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Sunday
Northbound to 14 Area
Domingo • Dirección hacia el norte a 14 Area

Route Ruta	Carlsbad Village Station	Plaza Camino Real Transit Center	Vista Way & Via Esmarca	MiraCosta College	Thunder Dr. & Vista Way	Oceanside Bl. & Avenida Del Oro	Town Center North	San Luis Rey Transit Center	Vandegrift & 16th St.
	1	3	4	5	6	7	8	9	10
315	6:58	7:08	7:11	7:19	7:25	7:35	7:45	7:54	8:10a
315	7:56	8:07	8:11	8:19	8:25	8:35	8:46	8:55	9:11
315	8:55	9:06	9:11	9:19	9:25	9:35	9:46	9:55	10:11
315	9:52	10:04	10:09	10:17	10:25	10:35	10:46	10:55	11:11
315	10:51	11:04	11:09	11:17	11:25	11:35	11:46	11:55	**12:11p**
315	11:51	**12:04**	**12:09**	**12:17**	**12:25**	**12:35**	**12:46**	**12:55**	**1:11**
315	**12:51**	**1:04**	**1:09**	**1:17**	**1:25**	**1:35**	**1:46**	**1:55**	**2:11**
315	**1:51**	**2:04**	**2:09**	**2:17**	**2:25**	**2:35**	**2:46**	**2:55**	**3:11**
315	**2:51**	**3:04**	**3:09**	**3:17**	**3:25**	**3:35**	**3:46**	**3:55**	**4:11**
315	**3:49**	**4:03**	**4:09**	**4:17**	**4:25**	**4:35**	**4:46**	**4:55**	**5:11**
315	**4:49**	**5:03**	**5:09**	**5:17**	**5:25**	**5:35**	**5:47**	**5:56**	**6:12**
315	**5:51**	**6:04**	**6:10**	**6:18**	**6:25**	**6:35**	**6:47**	**6:56**	**7:12**
315	**6:53**	**7:05**	**7:10**	**7:18**	**7:25**	**7:35**	**7:47**	**7:56**	**8:12**
315	**7:53**	**8:05**	**8:10**	**8:18**	**8:25**	**8:35**	**8:46**	**8:55**	**9:10**
315	**8:53**	**9:05**	**9:10**	**9:18**	**9:25**	**9:35**	**9:46**	**9:55**	**10:10**

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Todas las personas que ingresen a Camp Pendleton deben tener una identificación válida y están sujetas a registros en cualquier momento.

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Esté listo: El acceso a la base es a discreción del personal de Camp Pendleton. Si un pasajero es negado el acceso a la base, es su responsabilidad encontrar otras opciones de transporte. Para obtener más información sobre cómo *viajar a través de Camp Pendleton,* refiérase al Índice de la Guía de Pasajeros.

315 Carlsbad Village Station to 14 Area

Carlsbad Village Station a 14 Area

See pg. 6 for Holiday schedules/Ver pág. 270 para obtener los horarios de días festivos

Sunday
Southbound to Carlsbad Village Station
Domingo • Dirección hacia el sur a la Estación Carlsbad Village

Route Ruta	Vandegrift & 16th St.	San Luis Rey Transit Center	Town Center North	Oceanside Bl. & Avenida Del Oro	Thunder Dr. & Vista Way	MiraCosta College	Vista Way & Via Esmarca	Plaza Camino Real Transit Center	Carlsbad Village Station
	10	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**1**
315	6:21	6:33	6:40	6:50	6:56	7:04	7:10	7:18	7:27a
315	7:20	7:33	7:40	7:50	7:57	8:05	8:12	8:20	8:30
315	8:20	8:33	8:40	8:50	8:57	9:05	9:12	9:21	9:31
315	9:18	9:32	9:40	9:50	9:57	10:05	10:12	10:22	10:32
315	10:16	10:30	10:39	10:50	10:57	11:05	11:12	11:23	11:33
315	11:16	11:30	11:39	11:50	11:57	**12:06**	**12:14**	**12:25**	**12:36p**
315	**12:16**	**12:30**	**12:39**	**12:50**	**12:57**	**1:06**	**1:14**	**1:25**	**1:36**
315	**1:16**	**1:30**	**1:39**	**1:50**	**1:57**	**2:06**	**2:14**	**2:25**	**2:36**
315	**2:16**	**2:30**	**2:39**	**2:50**	**2:57**	**3:06**	**3:14**	**3:25**	**3:36**
315	**3:16**	**3:30**	**3:39**	**3:50**	**3:57**	**4:06**	**4:14**	**4:25**	**4:36**
315	**4:16**	**4:30**	**4:39**	**4:50**	**4:57**	**5:06**	**5:14**	**5:25**	**5:36**
315	**5:16**	**5:30**	**5:39**	**5:50**	**5:57**	**6:06**	**6:14**	**6:24**	**6:35**
315	**6:17**	**6:30**	**6:39**	**6:50**	**6:57**	**7:04**	**7:12**	**7:22**	**7:32**
315	**7:18**	**7:31**	**7:39**	**7:50**	**7:57**	**8:04**	**8:10**	**8:20**	**8:30**
315	**8:19**	**8:32**	**8:39**	**8:50**	**8:57**	**9:04**	**9:10**	**9:20**	**9:30**

All persons entering Camp Pendleton must have valid identification and are subject to search at any time.
Todas las personas que ingresen a Camp Pendleton deben tener una identificación válida y están sujetas a registros en cualquier momento.

BE PREPARED: Base access subject to discretion of Camp Pendleton personnel. If passenger is declined access to the Base, it is the passenger's responsibility to be prepared to consider other transit options. For more information on *Traveling through Camp Pendleton,* see Rider's Guide index.
Esté listo: El acceso a la base es a discreción del personal de Camp Pendleton. Si un pasajero es negado el acceso a la base, es su responsabilidad encontrar otras opciones de transporte. Para obtener más información sobre cómo *viajar a través de Camp Pendleton,* refiérase al Índice de la Guía de Pasajeros.

Appendix D - Existing Traffic Counts

Intersection #1

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Monica Circle
E/W: Claire Drive
Weather: Clear

File Name : 01_OCS_Mon_Cla AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Monica Circle Southbound				Claire Drive Westbound				Monica Circle Northbound				Claire Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	7	2	9	1	2	0	3	1	4	0	5	2	3	8	13	30
07:15 AM	0	9	2	11	0	7	0	7	2	1	0	3	4	2	10	16	37
07:30 AM	0	8	8	16	1	8	1	10	4	3	0	7	2	4	17	23	56
07:45 AM	0	9	4	13	0	5	0	5	2	5	0	7	0	4	10	14	39
Total	0	33	16	49	2	22	1	25	9	13	0	22	8	13	45	66	162
08:00 AM	0	6	3	9	0	4	0	4	12	6	2	20	1	4	11	16	49
08:15 AM	1	3	2	6	0	5	1	6	6	4	0	10	2	1	14	17	39
08:30 AM	2	5	6	13	1	5	1	7	11	2	1	14	2	4	15	21	55
08:45 AM	2	3	5	10	0	5	2	7	6	1	0	7	4	3	14	21	45
Total	5	17	16	38	1	19	4	24	35	13	3	51	9	12	54	75	188
Grand Total	5	50	32	87	3	41	5	49	44	26	3	73	17	25	99	141	350
Apprch %	5.7	57.5	36.8		6.1	83.7	10.2		60.3	35.6	4.1		12.1	17.7	70.2		
Total %	1.4	14.3	9.1	24.9	0.9	11.7	1.4	14	12.6	7.4	0.9	20.9	4.9	7.1	28.3	40.3	

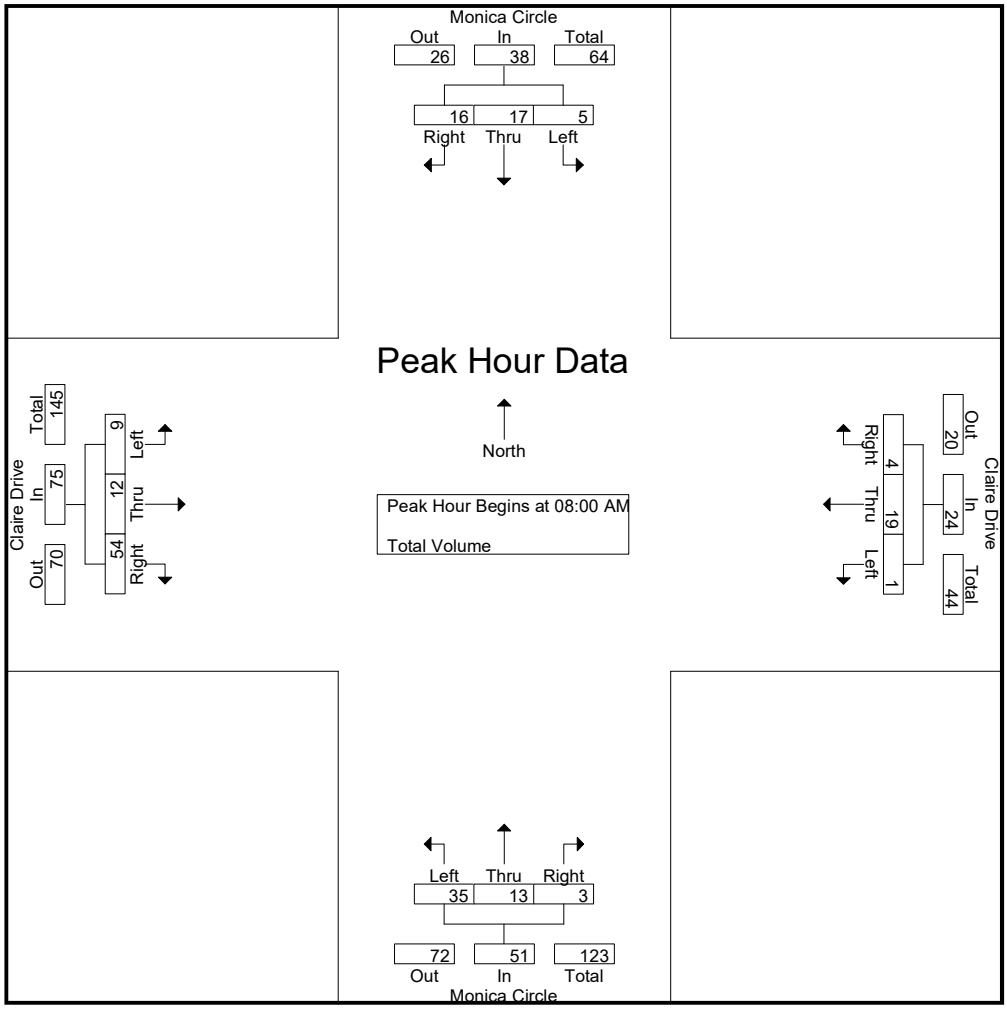
	Monica Circle Southbound				Claire Drive Westbound				Monica Circle Northbound				Claire Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	**6**	3	9	0	4	0	4	**12**	**6**	**2**	**20**	1	**4**	11	16	49
08:15 AM	1	3	2	6	0	**5**	1	6	6	4	0	10	2	1	14	17	39
08:30 AM	**2**	5	**6**	**13**	**1**	5	1	**7**	11	2	1	14	2	4	**15**	**21**	**55**
08:45 AM	2	3	5	10	0	5	**2**	7	6	1	0	7	**4**	3	14	21	45
Total Volume	5	17	16	38	1	19	4	24	35	13	3	51	9	12	54	75	188
% App. Total	13.2	44.7	42.1		4.2	79.2	16.7		68.6	25.5	5.9		12	16	72		
PHF	.625	.708	.667	.731	.250	.950	.500	.857	.729	.542	.375	.638	.563	.750	.900	.893	.855

Intersection #1

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Monica Circle
E/W: Claire Drive
Weather: Clear

File Name : 01_OCS_Mon_Cla AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:15 AM				07:45 AM				08:00 AM			
+0 mins.	0	7	2	9	0	7	0	7	2	5	0	7	1	**4**	11	16
+15 mins.	0	**9**	2	11	**1**	**8**	**1**	**10**	**12**	**6**	**2**	**20**	2	1	14	17
+30 mins.	0	8	**8**	**16**	0	5	0	5	6	4	0	10	2	4	**15**	**21**
+45 mins.	0	9	4	13	0	4	0	4	11	2	1	14	**4**	3	14	21
Total Volume	0	33	16	49	1	24	1	26	31	17	3	51	9	12	54	75
% App. Total	0	67.3	32.7		3.8	92.3	3.8		60.8	33.3	5.9		12	16	72	
PHF	.000	.917	.500	.766	.250	.750	.250	.650	.646	.708	.375	.638	.563	.750	.900	.893

Intersection #1

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Monica Circle
E/W: Claire Drive
Weather: Clear

File Name : 01_OCS_Mon_Cla PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Monica Circle Southbound				Claire Drive Westbound				Monica Circle Northbound				Claire Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	2	5	0	4	0	4	12	6	1	19	5	4	11	20	48
04:15 PM	0	3	0	3	0	0	0	0	16	6	0	22	6	3	6	15	40
04:30 PM	0	3	1	4	0	5	0	5	11	4	0	15	3	4	11	18	42
04:45 PM	0	8	3	11	1	3	1	5	8	6	1	15	5	5	10	20	51
Total	0	17	6	23	1	12	1	14	47	22	2	71	19	16	38	73	181
05:00 PM	0	3	2	5	1	2	0	3	7	10	2	19	6	3	7	16	43
05:15 PM	0	3	5	8	0	1	0	1	13	8	2	23	2	3	6	11	43
05:30 PM	1	4	1	6	0	1	0	1	17	3	0	20	7	5	10	22	49
05:45 PM	0	6	1	7	1	4	1	6	7	7	0	14	4	4	10	18	45
Total	1	16	9	26	2	8	1	11	44	28	4	76	19	15	33	67	180
Grand Total	1	33	15	49	3	20	2	25	91	50	6	147	38	31	71	140	361
Apprch %	2	67.3	30.6		12	80	8		61.9	34	4.1		27.1	22.1	50.7		
Total %	0.3	9.1	4.2	13.6	0.8	5.5	0.6	6.9	25.2	13.9	1.7	40.7	10.5	8.6	19.7	38.8	

	Monica Circle Southbound				Claire Drive Westbound				Monica Circle Northbound				Claire Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**8**	3	**11**	**1**	**3**	**1**	**5**	8	6	1	15	5	**5**	**10**	20	**51**
05:00 PM	0	3	2	5	1	2	0	3	7	**10**	**2**	19	6	3	7	16	43
05:15 PM	0	3	**5**	8	0	1	0	1	13	8	2	**23**	2	3	6	11	43
05:30 PM	**1**	4	1	6	0	1	0	1	**17**	3	0	20	**7**	5	10	**22**	49
Total Volume	1	18	11	30	2	7	1	10	45	27	5	77	20	16	33	69	186
% App. Total	3.3	60	36.7		20	70	10		58.4	35.1	6.5		29	23.2	47.8		
PHF	.250	.563	.550	.682	.500	.583	.250	.500	.662	.675	.625	.837	.714	.800	.825	.784	.912

Intersection #1

Counts Unlimited, Inc.
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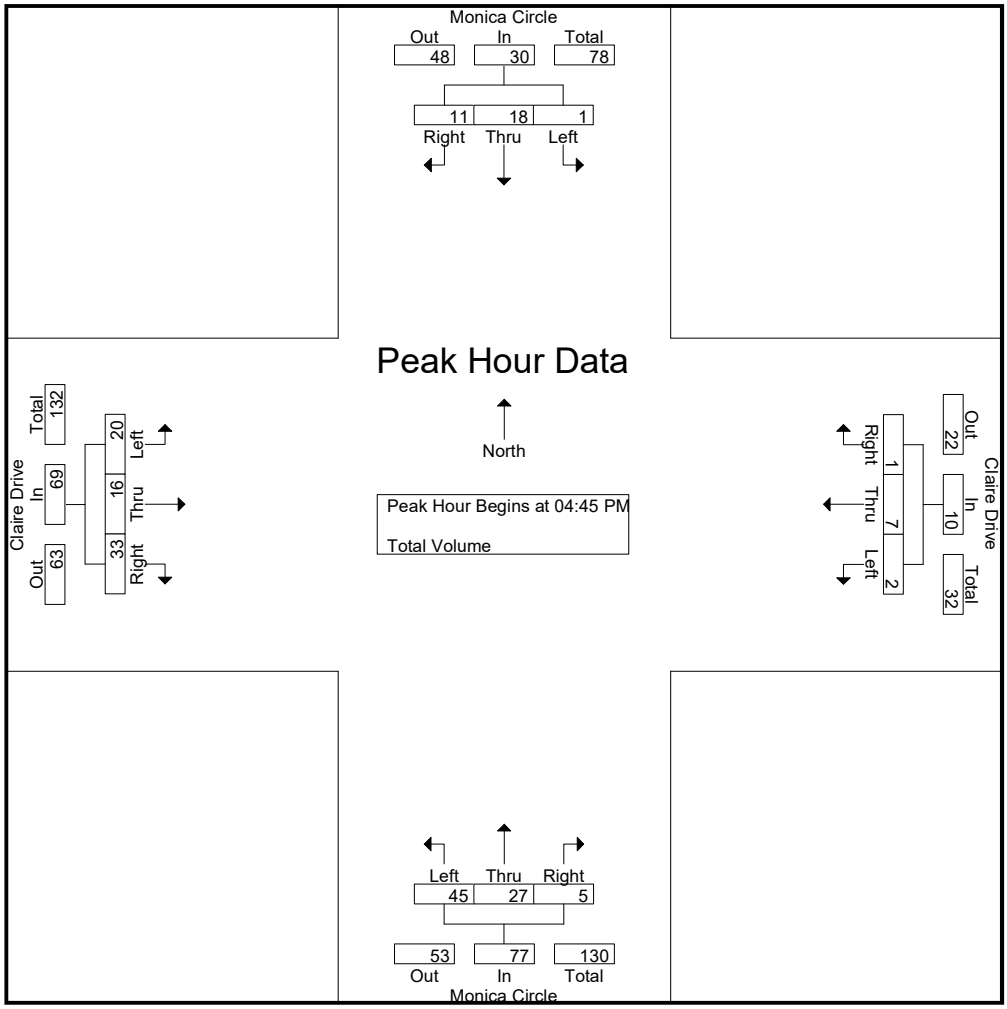
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Monica Circle
E/W: Claire Drive
Weather: Clear

File Name : 01_OCS_Mon_Cla PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:00 PM				04:45 PM				04:00 PM			
+0 mins.	0	**8**	3	**11**	0	4	0	4	8	6	1	15	5	4	**11**	**20**
+15 mins.	0	3	2	5	0	0	0	0	7	**10**	**2**	19	**6**	3	6	15
+30 mins.	0	3	**5**	8	0	**5**	0	**5**	13	8	2	**23**	3	4	11	18
+45 mins.	**1**	4	1	6	**1**	3	**1**	5	**17**	3	0	20	5	**5**	10	20
Total Volume	1	18	11	30	1	12	1	14	45	27	5	77	19	16	38	73
% App. Total	3.3	60	36.7		7.1	85.7	7.1		58.4	35.1	6.5		26	21.9	52.1	
PHF	.250	.563	.550	.682	.250	.600	.250	.700	.662	.675	.625	.837	.792	.800	.864	.913

Intersection #1

Location: Oceanside
N/S: Monica Circle
E/W: Claire Drive

Date: 9/27/2022
Day: Tuesday

PEDESTRIANS

	North Leg Monica Circle	East Leg Claire Drive	South Leg Monica Circle	West Leg Claire Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	1	0	1	2
7:15 AM	0	0	2	2	4
7:30 AM	0	0	1	0	1
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	1	0	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	1	4	3	8

	North Leg Monica Circle	East Leg Claire Drive	South Leg Monica Circle	West Leg Claire Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	2	2
4:15 PM	0	0	0	2	2
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	3	3
5:15 PM	0	3	1	0	4
5:30 PM	0	0	0	1	1
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	3	1	8	12

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #1

Location: Oceanside
N/S: Monica Circle
E/W: Claire Drive

Date: 9/27/2022
Day: Tuesday

BICYCLES

	Southbound Monica Circle			Westbound Claire Drive			Northbound Monica Circle			Eastbound Claire Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	1	1

	Southbound Monica Circle			Westbound Claire Drive			Northbound Monica Circle			Eastbound Claire Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #2

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Macario Drive
Weather: Clear

File Name : 02_OCS_Roj_Mac AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Personal Driveway Southbound				Macario Drive Westbound				Roja Drive Northbound				Macario Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	9	0	0	9	4	0	4	8	0	0	16	16	33
07:15 AM	0	1	0	1	10	1	0	11	5	0	4	9	0	1	18	19	40
07:30 AM	0	0	0	0	16	1	0	17	6	0	3	9	0	0	27	27	53
07:45 AM	0	0	0	0	16	0	0	16	9	1	8	18	0	1	21	22	56
Total	0	1	0	1	51	2	0	53	24	1	19	44	0	2	82	84	182
08:00 AM	0	0	0	0	22	0	0	22	19	0	9	28	0	0	17	17	67
08:15 AM	0	0	0	0	6	1	0	7	7	0	7	14	0	0	16	16	37
08:30 AM	0	0	0	0	7	0	0	7	14	0	2	16	0	1	21	22	45
08:45 AM	0	0	0	0	1	0	0	1	7	0	2	9	0	0	15	15	25
Total	0	0	0	0	36	1	0	37	47	0	20	67	0	1	69	70	174
Grand Total	0	1	0	1	87	3	0	90	71	1	39	111	0	3	151	154	356
Apprch %	0	100	0		96.7	3.3	0		64	0.9	35.1		0	1.9	98.1		
Total %	0	0.3	0	0.3	24.4	0.8	0	25.3	19.9	0.3	11	31.2	0	0.8	42.4	43.3	

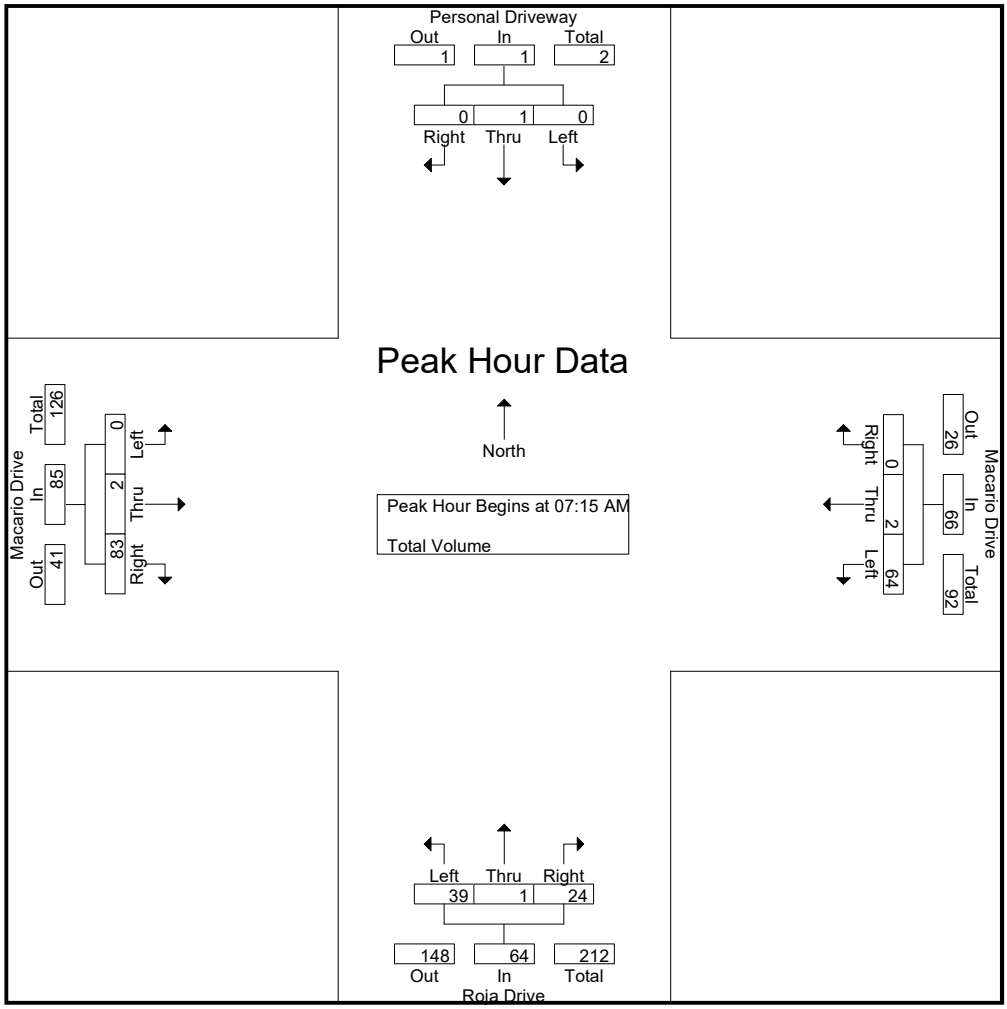
	Personal Driveway Southbound				Macario Drive Westbound				Roja Drive Northbound				Macario Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	**1**	0	**1**	10	**1**	0	11	5	0	4	9	0	**1**	18	19	40
07:30 AM	0	0	0	0	16	1	0	17	6	0	3	9	0	0	**27**	**27**	53
07:45 AM	0	0	0	0	16	0	0	16	9	**1**	8	18	0	1	21	22	56
08:00 AM	0	0	0	0	**22**	0	0	**22**	**19**	0	**9**	**28**	0	0	17	17	**67**
Total Volume	0	1	0	1	64	2	0	66	39	1	24	64	0	2	83	85	216
% App. Total	0	100	0		97	3	0		60.9	1.6	37.5		0	2.4	97.6		
PHF	.000	.250	.000	.250	.727	.500	.000	.750	.513	.250	.667	.571	.000	.500	.769	.787	.806

Intersection #2

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Macario Drive
Weather: Clear

File Name : 02_OCS_Roj_Mac AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:15 AM				07:45 AM				07:15 AM			
+0 mins.	0	0	0	0	10	**1**	0	11	9	**1**	8	18	0	**1**	18	19
+15 mins.	0	**1**	0	**1**	16	1	0	17	**19**	0	**9**	**28**	0	0	**27**	**27**
+30 mins.	0	0	0	0	16	0	0	16	7	0	7	14	0	1	21	22
+45 mins.	0	0	0	0	**22**	0	0	**22**	14	0	2	16	0	0	17	17
Total Volume	0	1	0	1	64	2	0	66	49	1	26	76	0	2	83	85
% App. Total	0	100	0		97	3	0		64.5	1.3	34.2		0	2.4	97.6	
PHF	.000	.250	.000	.250	.727	.500	.000	.750	.645	.250	.722	.679	.000	.500	.769	.787

Intersection #2

Counts Unlimited, Inc.
PO Box 1178
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City of Oceanside
N/S: Roja Drive
E/W: Macario Drive
Weather: Clear

File Name : 02_OCS_Roj_Mac PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Personal Driveway Southbound				Macario Drive Westbound				Roja Drive Northbound				Macario Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	3	0	0	3	20	0	7	27	0	1	12	13	43
04:15 PM	0	0	0	0	7	0	0	7	22	0	8	30	0	0	10	10	47
04:30 PM	0	0	0	0	7	0	0	7	16	0	3	19	0	0	13	13	39
04:45 PM	0	0	0	0	5	1	0	6	14	0	12	26	0	0	19	19	51
Total	0	0	0	0	22	1	0	23	72	0	30	102	0	1	54	55	180
05:00 PM	0	0	0	0	7	3	0	10	17	0	6	23	0	1	10	11	44
05:15 PM	0	0	0	0	9	0	0	9	21	0	3	24	0	1	8	9	42
05:30 PM	0	0	0	0	7	0	0	7	24	0	12	36	0	0	13	13	56
05:45 PM	0	0	0	0	10	0	0	10	11	0	9	20	0	0	18	18	48
Total	0	0	0	0	33	3	0	36	73	0	30	103	0	2	49	51	190
Grand Total	0	0	0	0	55	4	0	59	145	0	60	205	0	3	103	106	370
Apprch %	0	0	0		93.2	6.8	0		70.7	0	29.3		0	2.8	97.2		
Total %	0	0	0	0	14.9	1.1	0	15.9	39.2	0	16.2	55.4	0	0.8	27.8	28.6	

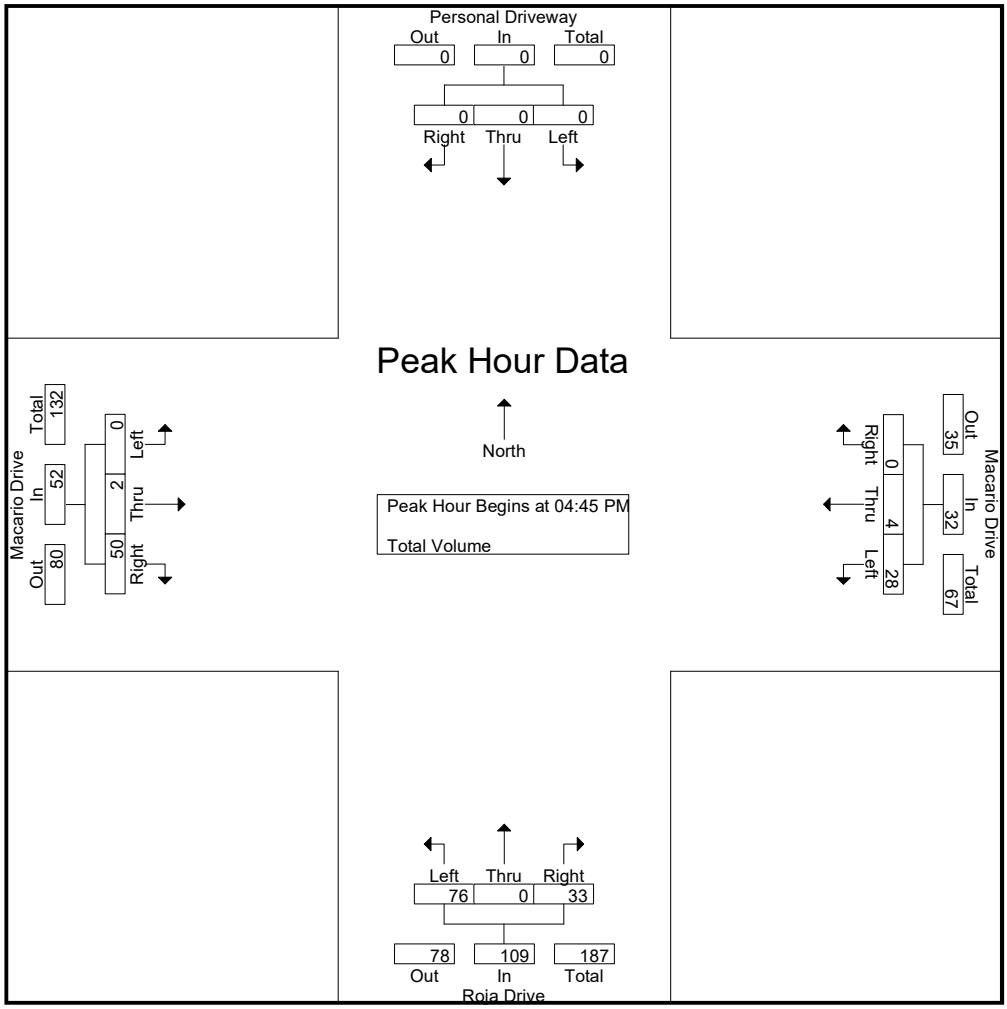
	Personal Driveway Southbound				Macario Drive Westbound				Roja Drive Northbound				Macario Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	5	1	0	6	14	0	**12**	26	0	0	**19**	**19**	51
05:00 PM	0	0	0	0	7	**3**	0	**10**	17	0	6	23	0	**1**	10	11	44
05:15 PM	0	0	0	0	**9**	0	0	9	21	0	3	24	0	1	8	9	42
05:30 PM	0	0	0	0	7	0	0	7	**24**	0	12	**36**	0	0	13	13	**56**
Total Volume	0	0	0	0	28	4	0	32	76	0	33	109	0	2	50	52	193
% App. Total	0	0	0		87.5	12.5	0		69.7	0	30.3		0	3.8	96.2		
PHF	.000	.000	.000	.000	.778	.333	.000	.800	.792	.000	.688	.757	.000	.500	.658	.684	.862

Intersection #2

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Macario Drive
Weather: Clear

File Name : 02_OCS_Roj_Mac PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				05:00 PM				04:45 PM				04:00 PM			
+0 mins.	0	0	0	0	7	**3**	0	**10**	14	0	**12**	26	0	**1**	12	13
+15 mins.	0	0	0	0	9	0	0	9	17	0	6	23	0	0	10	10
+30 mins.	0	0	0	0	7	0	0	7	21	0	3	24	0	0	13	13
+45 mins.	0	0	0	0	**10**	0	0	10	**24**	0	12	**36**	0	0	**19**	**19**
Total Volume	0	0	0	0	33	3	0	36	76	0	33	109	0	1	54	55
% App. Total	0	0	0		91.7	8.3	0		69.7	0	30.3		0	1.8	98.2	
PHF	.000	.000	.000	.000	.825	.250	.000	.900	.792	.000	.688	.757	.000	.250	.711	.724

Intersection #2

Location: Oceanside
N/S: Roja Drive
E/W: Macario Drive

Date: 9/27/2022
Day: Tuesday

PEDESTRIANS

	North Leg Personal Driveway	East Leg Macario Drive	South Leg Roja Drive	West Leg Macario Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	1	0	0	1
7:15 AM	0	1	1	2	4
7:30 AM	0	3	2	0	5
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	1	0	1
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	5	4	2	11

	North Leg Personal Driveway	East Leg Macario Drive	South Leg Roja Drive	West Leg Macario Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	1	0	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	2	0	2
5:30 PM	0	1	0	0	1
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	2	2	0	4

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #2

Location: Oceanside
N/S: Roja Drive
E/W: Macario Drive

Date: 9/27/2022
Day: Tuesday

BICYCLES

	Southbound Personal Driveway			Westbound Macario Drive			Northbound Roja Drive			Eastbound Macario Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
7:45 AM	0	0	0	1	0	0	0	0	0	0	0	1	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	1	0	0	0	0	1	0	0	1	3

	Southbound Personal Driveway			Westbound Macario Drive			Northbound Roja Drive			Eastbound Macario Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	2	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	2	0	0	0	0	0	0	0	0	2

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #3

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Redondo Drive
Weather: Clear

File Name : 03_OCS_Roj_Red AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Roja Drive Southbound				Redondo Drive Westbound				Roja Drive Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	19	3	5	27	0	4	8	12	0	0	2	2	1	7	0	8	49
07:15 AM	22	4	3	29	0	6	7	13	0	0	4	4	2	7	0	9	55
07:30 AM	36	3	4	43	1	7	6	14	1	2	3	6	1	7	0	8	71
07:45 AM	29	1	13	43	0	12	12	24	0	2	0	2	5	15	0	20	89
Total	106	11	25	142	1	29	33	63	1	4	9	14	9	36	0	45	264
08:00 AM	21	1	17	39	2	20	16	38	2	1	2	5	12	11	1	24	106
08:15 AM	21	1	2	24	0	3	13	16	0	0	1	1	3	6	1	10	51
08:30 AM	25	3	1	29	0	3	16	19	0	0	1	1	0	11	0	11	60
08:45 AM	17	0	1	18	0	6	7	13	0	0	1	1	2	4	0	6	38
Total	84	5	21	110	2	32	52	86	2	1	5	8	17	32	2	51	255
Grand Total	190	16	46	252	3	61	85	149	3	5	14	22	26	68	2	96	519
Apprch %	75.4	6.3	18.3		2	40.9	57		13.6	22.7	63.6		27.1	70.8	2.1		
Total %	36.6	3.1	8.9	48.6	0.6	11.8	16.4	28.7	0.6	1	2.7	4.2	5	13.1	0.4	18.5	

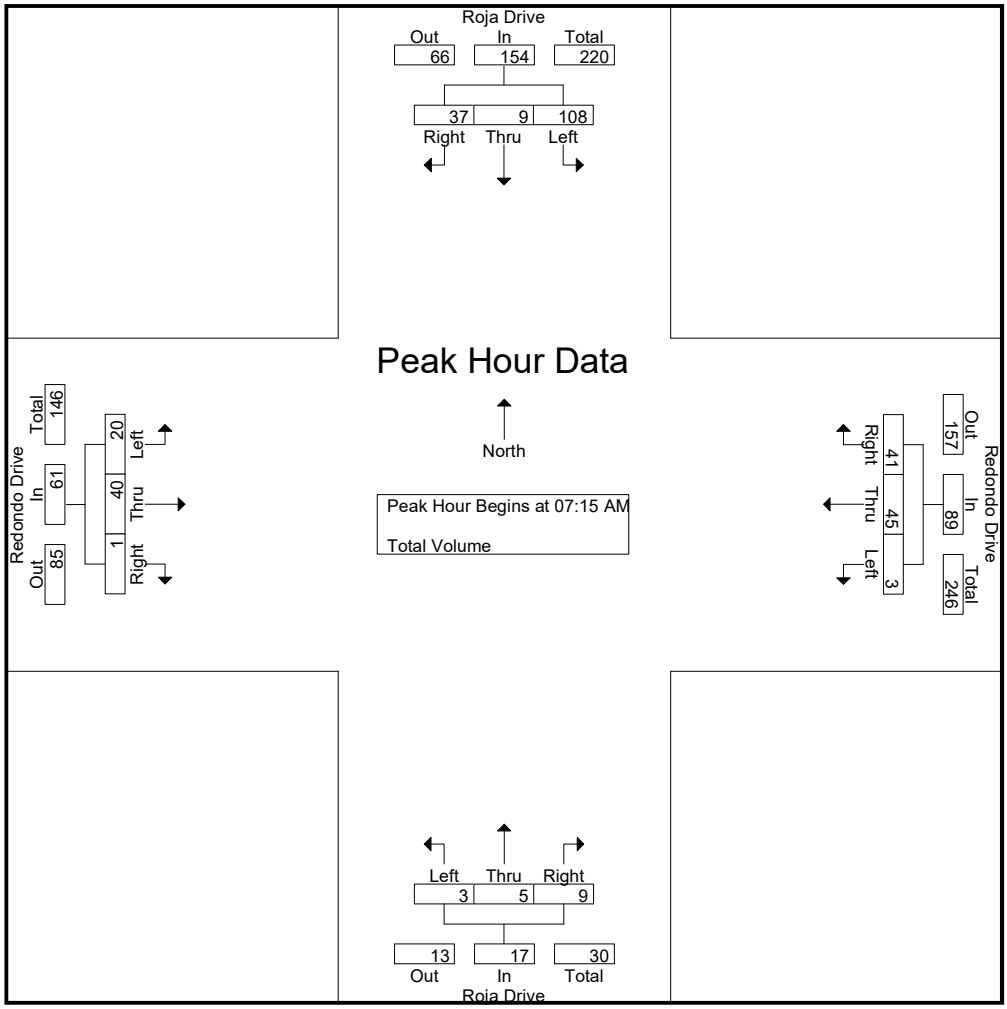
	Roja Drive Southbound				Redondo Drive Westbound				Roja Drive Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	22	**4**	3	29	0	6	7	13	0	0	**4**	4	2	7	0	9	55
07:30 AM	**36**	3	4	**43**	1	7	6	14	1	**2**	3	**6**	1	7	0	8	71
07:45 AM	29	1	13	43	0	12	12	24	0	2	0	2	5	**15**	0	20	89
08:00 AM	21	1	**17**	39	**2**	**20**	**16**	**38**	**2**	1	2	5	**12**	11	**1**	**24**	**106**
Total Volume	108	9	37	154	3	45	41	89	3	5	9	17	20	40	1	61	321
% App. Total	70.1	5.8	24		3.4	50.6	46.1		17.6	29.4	52.9		32.8	65.6	1.6		
PHF	.750	.563	.544	.895	.375	.563	.641	.586	.375	.625	.563	.708	.417	.667	.250	.635	.757

Intersection #3

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Redondo Drive
Weather: Clear

File Name : 03_OCS_Roj_Red AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:45 AM				07:15 AM				07:45 AM			
+0 mins.	22	**4**	3	29	0	12	12	24	0	0	**4**	4	5	**15**	0	20
+15 mins.	**36**	3	4	**43**	**2**	**20**	**16**	**38**	1	**2**	3	**6**	**12**	11	**1**	**24**
+30 mins.	29	1	13	43	0	3	13	16	0	2	0	2	3	6	1	10
+45 mins.	21	1	**17**	39	0	3	16	19	**2**	1	2	5	0	11	0	11
Total Volume	108	9	37	154	2	38	57	97	3	5	9	17	20	43	2	65
% App. Total	70.1	5.8	24		2.1	39.2	58.8		17.6	29.4	52.9		30.8	66.2	3.1	
PHF	.750	.563	.544	.895	.250	.475	.891	.638	.375	.625	.563	.708	.417	.717	.500	.677

Intersection #3

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Redondo Drive
Weather: Clear

File Name : 03_OCS_Roj_Red PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Roja Drive Southbound				Redondo Drive Westbound				Roja Drive Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	14	1	3	18	5	13	23	41	1	1	2	4	2	3	0	5	68
04:15 PM	16	2	0	18	3	5	26	34	0	4	2	6	2	5	1	8	66
04:30 PM	16	1	4	21	4	9	18	31	0	2	2	4	1	8	0	9	65
04:45 PM	22	3	2	27	6	7	21	34	0	2	0	2	3	3	1	7	70
Total	68	7	9	84	18	34	88	140	1	9	6	16	8	19	2	29	269
05:00 PM	15	1	3	19	3	8	24	35	0	3	2	5	1	4	0	5	64
05:15 PM	14	1	6	21	2	6	21	29	0	1	1	2	4	6	0	10	62
05:30 PM	18	0	2	20	3	12	28	43	2	1	0	3	8	9	0	17	83
05:45 PM	23	1	4	28	1	11	21	33	0	3	2	5	2	11	2	15	81
Total	70	3	15	88	9	37	94	140	2	8	5	15	15	30	2	47	290
Grand Total	138	10	24	172	27	71	182	280	3	17	11	31	23	49	4	76	559
Apprch %	80.2	5.8	14		9.6	25.4	65		9.7	54.8	35.5		30.3	64.5	5.3		
Total %	24.7	1.8	4.3	30.8	4.8	12.7	32.6	50.1	0.5	3	2	5.5	4.1	8.8	0.7	13.6	

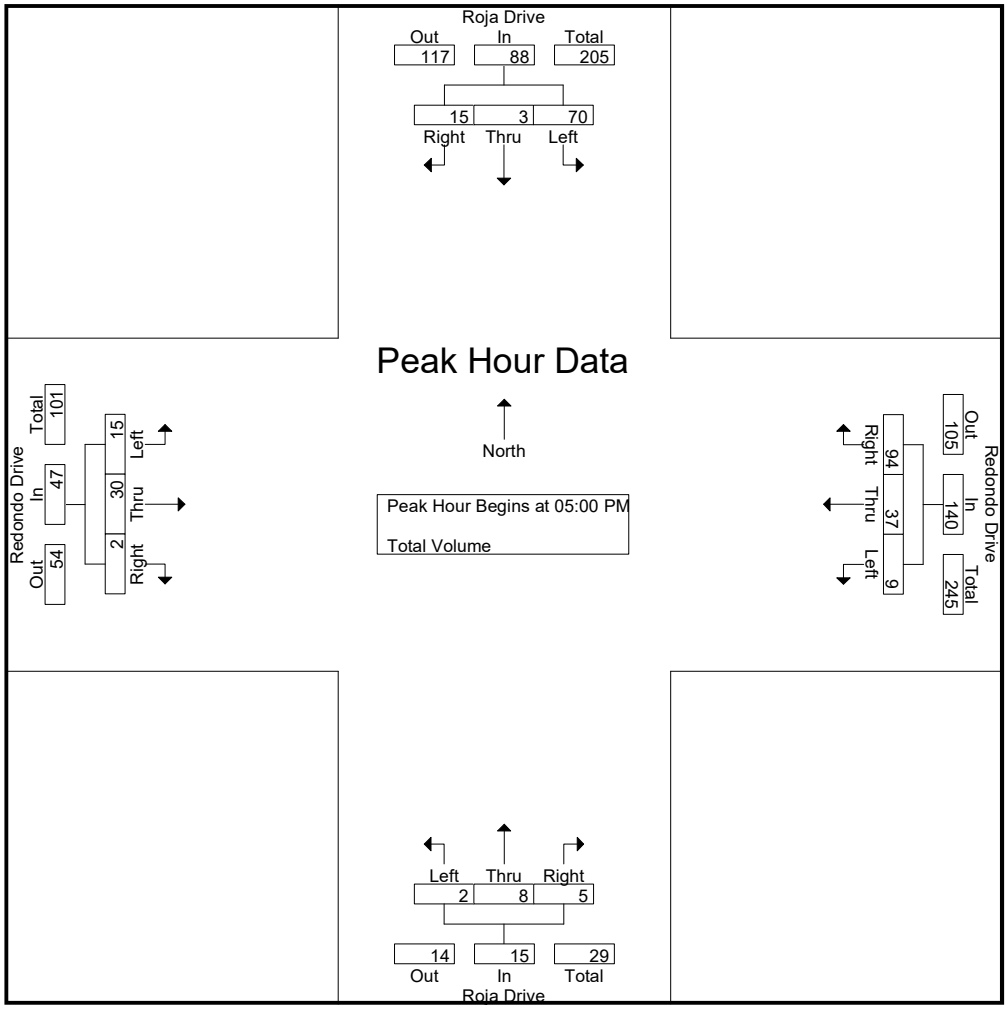
	Roja Drive Southbound				Redondo Drive Westbound				Roja Drive Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	15	**1**	3	19	**3**	8	24	35	0	**3**	**2**	**5**	1	4	0	5	64
05:15 PM	14	1	**6**	21	2	6	21	29	0	1	1	2	4	6	0	10	62
05:30 PM	18	0	2	20	3	**12**	**28**	**43**	**2**	1	0	3	**8**	9	0	**17**	**83**
05:45 PM	**23**	1	4	**28**	1	11	21	33	0	3	2	5	2	**11**	**2**	15	81
Total Volume	70	3	15	88	9	37	94	140	2	8	5	15	15	30	2	47	290
% App. Total	79.5	3.4	17		6.4	26.4	67.1		13.3	53.3	33.3		31.9	63.8	4.3		
PHF	.761	.750	.625	.786	.750	.771	.839	.814	.250	.667	.625	.750	.469	.682	.250	.691	.873

Intersection #3

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Roja Drive
E/W: Redondo Drive
Weather: Clear

File Name : 03_OCS_Roj_Red PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:45 PM				04:15 PM				05:00 PM			
+0 mins.	16	1	4	21	**6**	7	21	34	0	**4**	**2**	**6**	1	4	0	5
+15 mins.	**22**	**3**	2	**27**	3	8	24	35	0	2	2	4	4	6	0	10
+30 mins.	15	1	3	19	2	6	21	29	0	2	0	2	**8**	9	0	**17**
+45 mins.	14	1	**6**	21	3	**12**	**28**	**43**	0	3	2	5	2	**11**	**2**	15
Total Volume	67	6	15	88	14	33	94	141	0	11	6	17	15	30	2	47
% App. Total	76.1	6.8	17		9.9	23.4	66.7		0	64.7	35.3		31.9	63.8	4.3	
PHF	.761	.500	.625	.815	.583	.688	.839	.820	.000	.688	.750	.708	.469	.682	.250	.691

Intersection #3

Location: Oceanside
N/S: Roja Drive
E/W: Redondo Drive

Date: 9/27/2022
Day: Tuesday

PEDESTRIANS

	North Leg Roja Drive Pedestrians	East Leg Redondo Drive Pedestrians	South Leg Roja Drive Pedestrians	West Leg Redondo Drive Pedestrians	
7:00 AM	3	0	1	0	4
7:15 AM	1	0	4	1	6
7:30 AM	4	3	8	0	15
7:45 AM	2	2	12	0	16
8:00 AM	5	1	3	0	9
8:15 AM	10	2	3	0	15
8:30 AM	2	1	3	1	7
8:45 AM	1	0	1	0	2
TOTAL VOLUMES:	28	9	35	2	74

	North Leg Roja Drive Pedestrians	East Leg Redondo Drive Pedestrians	South Leg Roja Drive Pedestrians	West Leg Redondo Drive Pedestrians	
4:00 PM	2	7	3	0	12
4:15 PM	0	2	4	0	6
4:30 PM	0	0	2	0	2
4:45 PM	0	0	2	0	2
5:00 PM	1	0	3	0	4
5:15 PM	1	1	2	0	4
5:30 PM	1	1	1	0	3
5:45 PM	1	3	1	1	6
TOTAL VOLUMES:	6	14	18	1	39

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #3

Location: Oceanside
N/S: Roja Drive
E/W: Redondo Drive

Date: 9/27/2022
Day: Tuesday

BICYCLES

	Southbound Roja Drive			Westbound Redondo Drive			Northbound Roja Drive			Eastbound Redondo Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
7:45 AM	1	0	1	0	0	0	0	0	0	0	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	1	0	1	0	0	0	0	0	0	1	0	0	3

	Southbound Roja Drive			Westbound Redondo Drive			Northbound Roja Drive			Eastbound Redondo Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	0	1	0	1	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	2	0	0	0	1	0	0	0	0	0	1	0	4
5:30 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	2	0	0	1	3	0	0	0	1	0	4	0	11

Counts Unlimited, Inc.
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Corona, CA 92878
951-268-6268

Intersection #4

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Vandegrift Blvd/River Road
E/W: Redondo Drive/River Road
Weather: Clear

File Name : 04_OCS_Vande_Red AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Vandegrift Boulevard Southbound				River Road Westbound				River Road Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	18	126	7	151	98	8	67	173	18	201	37	256	9	13	23	45	625
07:15 AM	21	202	10	233	117	13	52	182	24	231	62	317	3	12	29	44	776
07:30 AM	21	214	8	243	107	28	66	201	17	205	62	284	7	15	43	65	793
07:45 AM	30	208	13	251	109	20	53	182	25	186	94	305	7	11	31	49	787
Total	90	750	38	878	431	69	238	738	84	823	255	1162	26	51	126	203	2981
08:00 AM	32	193	11	236	132	28	44	204	34	194	91	319	7	30	27	64	823
08:15 AM	16	150	4	170	125	22	31	178	25	153	61	239	9	6	22	37	624
08:30 AM	12	106	7	125	118	9	32	159	29	147	41	217	5	9	23	37	538
08:45 AM	8	124	3	135	75	6	23	104	21	97	42	160	5	6	20	31	430
Total	68	573	25	666	450	65	130	645	109	591	235	935	26	51	92	169	2415
Grand Total	158	1323	63	1544	881	134	368	1383	193	1414	490	2097	52	102	218	372	5396
Apprch %	10.2	85.7	4.1		63.7	9.7	26.6		9.2	67.4	23.4		14	27.4	58.6		
Total %	2.9	24.5	1.2	28.6	16.3	2.5	6.8	25.6	3.6	26.2	9.1	38.9	1	1.9	4	6.9	

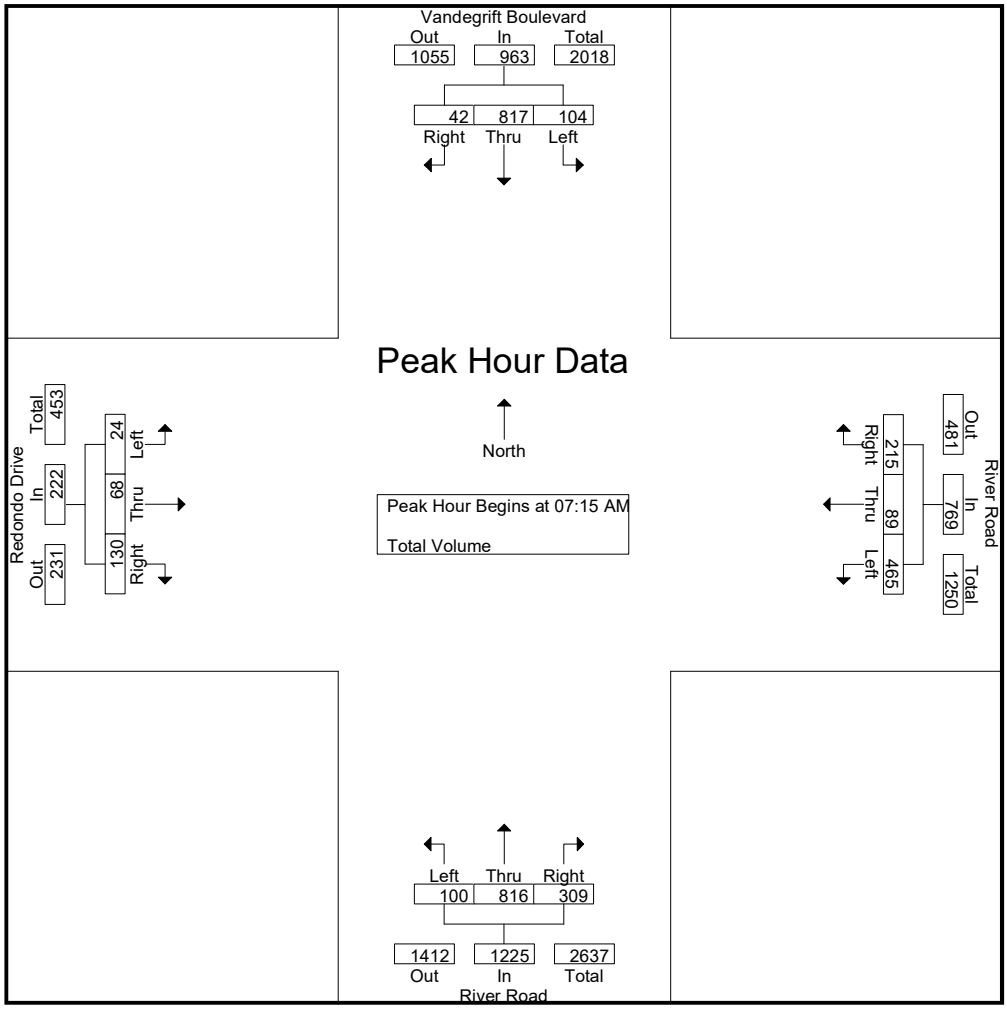
	Vandegrift Boulevard Southbound				River Road Westbound				River Road Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	21	202	10	233	117	13	52	182	24	**231**	62	317	3	12	29	44	776
07:30 AM	21	**214**	8	243	107	**28**	**66**	201	17	205	62	284	**7**	15	**43**	**65**	793
07:45 AM	30	208	**13**	**251**	109	20	53	182	25	186	**94**	305	7	11	31	49	787
08:00 AM	**32**	193	11	236	**132**	28	44	**204**	**34**	194	91	**319**	7	**30**	27	64	**823**
Total Volume	104	817	42	963	465	89	215	769	100	816	309	1225	24	68	130	222	3179
% App. Total	10.8	84.8	4.4		60.5	11.6	28		8.2	66.6	25.2		10.8	30.6	58.6		
PHF	.813	.954	.808	.959	.881	.795	.814	.942	.735	.883	.822	.960	.857	.567	.756	.854	.966

Intersection #4

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Vandegrift Blvd/River Road
E/W: Redondo Drive/River Road
Weather: Clear

File Name : 04_OCS_Vande_Red AM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	21	202	10	233	117	13	52	182	24	**231**	62	317	3	12	29	44
+15 mins.	21	**214**	8	243	107	**28**	**66**	201	17	205	62	284	**7**	15	**43**	**65**
+30 mins.	30	208	**13**	**251**	109	20	53	182	25	186	**94**	305	7	11	31	49
+45 mins.	**32**	193	11	236	**132**	28	44	**204**	**34**	194	91	**319**	7	**30**	27	64
Total Volume	104	817	42	963	465	89	215	769	100	816	309	1225	24	68	130	222
% App. Total	10.8	84.8	4.4		60.5	11.6	28		8.2	66.6	25.2		10.8	30.6	58.6	
PHF	.813	.954	.808	.959	.881	.795	.814	.942	.735	.883	.822	.960	.857	.567	.756	.854

Intersection #4

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Vandegrift Blvd/River Road
E/W: Redondo Drive/River Road
Weather: Clear

File Name : 04_OCS_Vande_Red PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 1

Groups Printed- Total Volume

	Vandegrift Boulevard Southbound				River Road Westbound				River Road Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	77	262	8	347	56	25	20	101	51	199	104	354	12	19	28	59	861
04:15 PM	58	234	12	304	91	33	24	148	50	171	103	324	14	22	37	73	849
04:30 PM	50	245	17	312	52	19	21	92	65	201	115	381	12	18	25	55	840
04:45 PM	63	240	12	315	56	26	22	104	59	194	105	358	22	24	31	77	854
Total	248	981	49	1278	255	103	87	445	225	765	427	1417	60	83	121	264	3404
05:00 PM	67	234	11	312	60	15	15	90	69	191	93	353	10	14	31	55	810
05:15 PM	37	197	9	243	56	22	21	99	49	155	84	288	13	21	22	56	686
05:30 PM	50	196	12	258	69	28	16	113	66	188	87	341	17	22	28	67	779
05:45 PM	44	133	16	193	77	14	19	110	65	197	104	366	30	15	37	82	751
Total	198	760	48	1006	262	79	71	412	249	731	368	1348	70	72	118	260	3026
Grand Total	446	1741	97	2284	517	182	158	857	474	1496	795	2765	130	155	239	524	6430
Apprch %	19.5	76.2	4.2		60.3	21.2	18.4		17.1	54.1	28.8		24.8	29.6	45.6		
Total %	6.9	27.1	1.5	35.5	8	2.8	2.5	13.3	7.4	23.3	12.4	43	2	2.4	3.7	8.1	

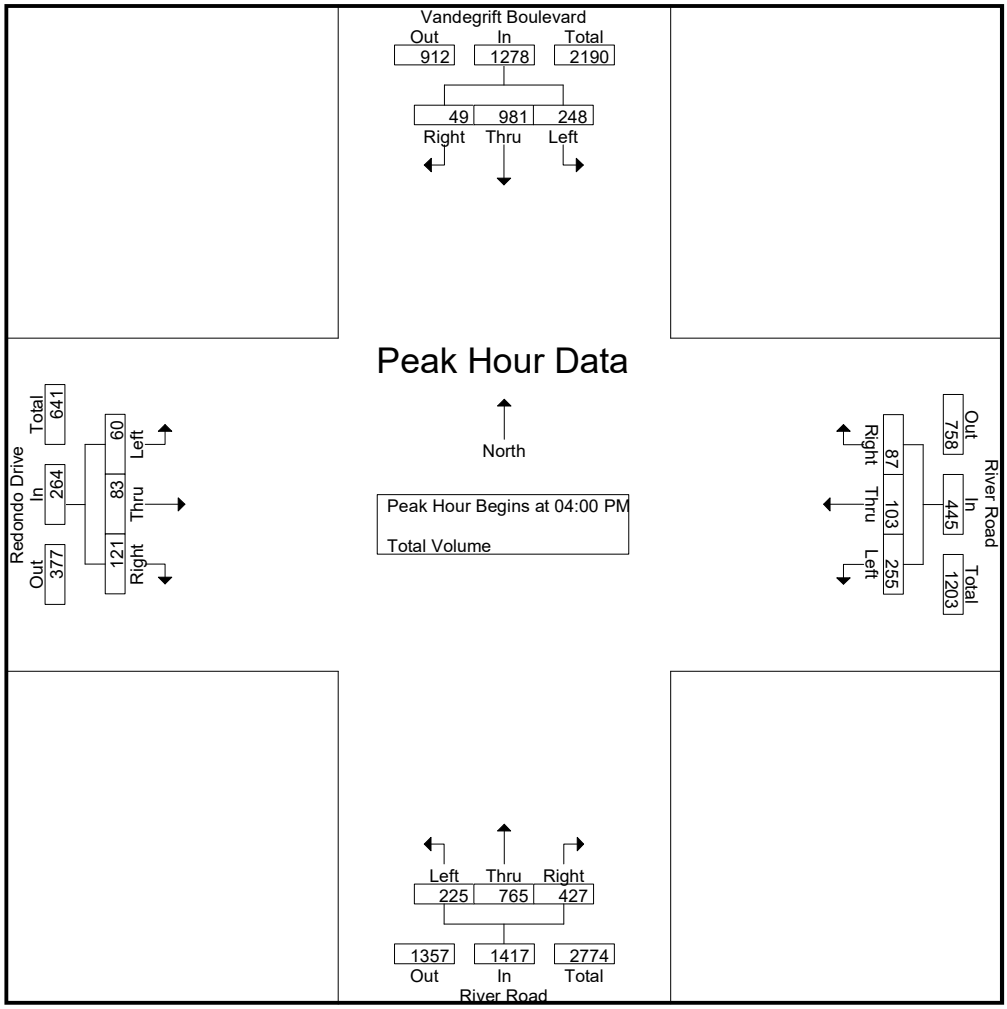
	Vandegrift Boulevard Southbound				River Road Westbound				River Road Northbound				Redondo Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	**77**	**262**	8	**347**	56	25	20	101	51	199	104	354	12	19	28	59	**861**
04:15 PM	58	234	12	304	**91**	**33**	**24**	**148**	50	171	103	324	14	22	**37**	73	849
04:30 PM	50	245	**17**	312	52	19	21	92	**65**	**201**	**115**	**381**	12	18	25	55	840
04:45 PM	63	240	12	315	56	26	22	104	59	194	105	358	**22**	**24**	31	**77**	854
Total Volume	248	981	49	1278	255	103	87	445	225	765	427	1417	60	83	121	264	3404
% App. Total	19.4	76.8	3.8		57.3	23.1	19.6		15.9	54	30.1		22.7	31.4	45.8		
PHF	.805	.936	.721	.921	.701	.780	.906	.752	.865	.951	.928	.930	.682	.865	.818	.857	.988

Intersection #4

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Oceanside
N/S: Vandegrift Blvd/River Road
E/W: Redondo Drive/River Road
Weather: Clear

File Name : 04_OCS_Vande_Red PM
Site Code : 22922841
Start Date : 9/27/2022
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	**77**	**262**	8	**347**	56	25	20	101	51	199	104	354	12	19	28	59
+15 mins.	58	234	12	304	**91**	**33**	**24**	**148**	50	171	103	324	14	22	**37**	73
+30 mins.	50	245	**17**	312	52	19	21	92	**65**	**201**	**115**	**381**	12	18	25	55
+45 mins.	63	240	12	315	56	26	22	104	59	194	105	358	**22**	**24**	31	**77**
Total Volume	248	981	49	1278	255	103	87	445	225	765	427	1417	60	83	121	264
% App. Total	19.4	76.8	3.8		57.3	23.1	19.6		15.9	54	30.1		22.7	31.4	45.8	
PHF	.805	.936	.721	.921	.701	.780	.906	.752	.865	.951	.928	.930	.682	.865	.818	.857

Intersection #4

Location: Oceanside
N/S: Vandegrift Blvd/River Rd
E/W: Redondo Dr/River Rd

Date: 9/27/2022
Day: Tuesday

PEDESTRIANS

	North Leg Vandegrift Boulevard	East Leg River Road	South Leg River Road	West Leg Redondo Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	5	0	5
7:15 AM	1	2	12	4	19
7:30 AM	1	2	11	2	16
7:45 AM	6	1	5	1	13
8:00 AM	2	0	1	0	3
8:15 AM	0	0	1	0	1
8:30 AM	0	1	4	1	6
8:45 AM	0	0	3	0	3
TOTAL VOLUMES:	10	6	42	8	66

	North Leg Vandegrift Boulevard	East Leg River Road	South Leg River Road	West Leg Redondo Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	5	1	25	1	32
4:15 PM	1	0	8	1	10
4:30 PM	2	5	7	5	19
4:45 PM	0	0	8	0	8
5:00 PM	3	2	1	0	6
5:15 PM	2	0	6	0	8
5:30 PM	1	0	4	0	5
5:45 PM	0	1	9	0	10
TOTAL VOLUMES:	14	9	68	7	98

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Intersection #4

Location: Oceanside
N/S: Vandegrift Blvd/River Rd
E/W: Redondo Dr/River Rd

Date: 9/27/2022
Day: Tuesday

BICYCLES

	Southbound Vandegrift Boulevard			Westbound River Road			Northbound River Road			Eastbound Redondo Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	1	0	0	0	0	0	1	0	0	0	2	4
7:15 AM	0	2	0	0	0	1	0	1	0	0	0	0	4
7:30 AM	0	1	0	0	0	0	0	0	0	0	1	0	2
7:45 AM	0	2	0	0	0	0	0	1	0	0	2	0	5
8:00 AM	0	1	0	0	0	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	3	0	0	0	0	0	1	0	0	0	0	4
TOTAL VOLUMES:	0	10	0	1	0	1	0	5	0	0	4	2	23

	Southbound Vandegrift Boulevard			Westbound River Road			Northbound River Road			Eastbound Redondo Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	1	0	0	3	0	0	0	0	4
5:15 PM	0	1	0	0	0	0	0	2	0	0	0	0	3
5:30 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	2	0	0	3	0	0	7	0	0	1	0	13

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Roadway Segment A

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

City of Oceanside
Monica Circle
B/ Claire Drive - Macario Drive
24 Hour Directional Volume Count

OCS001
Site Code: 229-22841

Start Time	10/4/22 Tue	Northbound Morning	Northbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Southbound Morning	Southbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		2	6			2	10				
12:15		2	13			0	11				
12:30		2	4			0	9				
12:45		0	4	6	27	2	8	4	38	10	65
01:00		0	9			1	6				
01:15		1	11			1	16				
01:30		0	9			1	7				
01:45		1	14	2	43	1	7	4	36	6	79
02:00		1	12			1	7				
02:15		0	20			0	15				
02:30		1	5			1	15				
02:45		0	13	2	50	1	17	3	54	5	104
03:00		0	16			0	21				
03:15		0	16			2	9				
03:30		0	22			2	19				
03:45		0	14	0	68	2	13	6	62	6	130
04:00		0	17			4	12				
04:15		1	17			5	15				
04:30		1	12			3	16				
04:45		0	**19**	2	65	5	18	17	61	19	126
05:00		0	**22**			7	12				
05:15		1	**18**			6	**19**				
05:30		0	**18**			4	**22**				
05:45		3	16	4	74	8	**18**	25	71	29	145
06:00		0	15			8	**16**				
06:15		1	10			6	14				
06:30		5	13			9	9				
06:45		6	18	12	56	13	5	36	44	48	100
07:00		2	8			**14**	10				
07:15		3	13			**14**	7				
07:30		2	15			**28**	14				
07:45		**12**	16	19	52	**22**	14	78	45	97	97
08:00		**17**	8			10	7				
08:15		**11**	7			10	5				
08:30		**13**	9			20	8				
08:45		8	9	49	33	20	2	60	22	109	55
09:00		6	14			14	7				
09:15		5	2			4	5				
09:30		8	5			9	6				
09:45		7	2	26	23	11	3	38	21	64	44
10:00		7	5			7	3				
10:15		6	7			8	4				
10:30		6	6			3	1				
10:45		8	1	27	19	5	2	23	10	50	29
11:00		4	1			8	2				
11:15		7	2			9	0				
11:30		11	1			8	0				
11:45		5	3	27	7	7	2	32	4	59	11
Total		176	517	176	517	326	468	326	468	502	985
Combined Total		693		693		794		794		1487	
AM Peak	-	07:45	-	-	-	07:00	-	-	-	-	-
Vol.	-	53	-	-	-	78	-	-	-	-	-
P.H.F.		0.779				0.696					
PM Peak	-	-	04:45	-	-	-	05:15	-	-	-	-
Vol.	-	-	77	-	-	-	75	-	-	-	-
P.H.F.			0.875				0.852				
Percentage		25.4%	74.6%			41.1%	58.9%				
ADT/AADT		ADT 1,487		AADT 1,487							

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

City of Oceanside
Roja Drive
B/ Macario Drive - North Redondo Drive
24 Hour Directional Volume Count

OCS002
Site Code: 229-22841

Start Time	10/4/22 Tue	Northbound Morning	Northbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Southbound Morning	Southbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		3	12			4	11				
12:15		3	14			0	13				
12:30		3	8			0	13				
12:45		1	9	10	43	2	17	6	54	16	97
01:00		0	12			1	11				
01:15		3	12			1	18				
01:30		0	12			1	9				
01:45		2	23	5	59	1	15	4	53	9	112
02:00		1	16			1	15				
02:15		0	27			0	19				
02:30		0	12			1	21				
02:45		0	22	1	77	1	29	3	84	4	161
03:00		2	27			1	29				
03:15		0	25			2	16				
03:30		0	27			4	22				
03:45		1	19	3	98	1	19	8	86	11	184
04:00		0	24			4	17				
04:15		2	19			4	20				
04:30		1	20			4	22				
04:45		0	**30**	3	93	5	23	17	82	20	175
05:00		0	**28**			5	23				
05:15		3	**28**			12	**26**				
05:30		0	**27**			8	**31**				
05:45		4	21	7	104	15	**28**	40	108	47	212
06:00		2	22			14	**24**				
06:15		6	16			16	21				
06:30		3	22			25	15				
06:45		10	26	21	86	21	12	76	72	97	158
07:00		5	17			24	14				
07:15		5	22			**22**	12				
07:30		10	22			**43**	17				
07:45		**22**	21	42	82	**36**	14	125	57	167	139
08:00		**30**	13			**26**	8				
08:15		**19**	12			15	7				
08:30		**16**	16			28	9				
08:45		12	9	77	50	29	3	98	27	175	77
09:00		17	16			18	7				
09:15		9	5			10	10				
09:30		7	9			15	8				
09:45		10	3	43	33	16	3	59	28	102	61
10:00		8	7			13	4				
10:15		9	9			11	6				
10:30		8	9			4	2				
10:45		11	2	36	27	12	1	40	13	76	40
11:00		11	2			13	3				
11:15		13	5			16	3				
11:30		20	1			14	0				
11:45		8	4	52	12	12	2	55	8	107	20
Total		300	764	300	764	531	672	531	672	831	1436
Combined Total		1064		1064		1203		1203		2267	
AM Peak	-	07:45	-	-	-	07:15	-	-	-	-	-
Vol.	-	87	-	-	-	127	-	-	-	-	-
P.H.F.		0.725				0.738					
PM Peak	-	-	04:45	-	-	-	05:15	-	-	-	-
Vol.	-	-	113	-	-	-	109	-	-	-	-
P.H.F.			0.942				0.879				
Percentage		28.2%	71.8%			44.1%	55.9%				
ADT/AADT		ADT 2,267		AADT 2,267							

Roadway Segment D

City of Oceanside
North Redondo Drive
B/ Roja Drive - North River Road
24 Hour Directional Volume Count

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

OCS003
Site Code: 229-22841

Start Time	9/27/22 Tue	Eastbound Morning	Eastbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Westbound Morning	Westbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		3	27			2	34				
12:15		2	30			7	31				
12:30		2	26			6	31				
12:45		3	23	10	106	1	23	16	119	26	225
01:00		3	21			1	27				
01:15		2	23			3	24				
01:30		1	34			0	24				
01:45		0	35	6	113	1	25	5	100	11	213
02:00		1	23			1	30				
02:15		1	24			2	38				
02:30		6	32			2	35				
02:45		0	**40**	8	119	1	46	6	149	14	268
03:00		1	**52**			1	**73**				
03:15		6	**48**			0	**61**				
03:30		6	**48**			1	**64**				
03:45		4	39	17	187	6	**67**	8	265	25	452
04:00		5	25			3	56				
04:15		15	36			5	63				
04:30		10	42			1	46				
04:45		19	42	49	145	1	55	10	220	59	365
05:00		16	38			3	58				
05:15		22	35			2	54				
05:30		32	51			11	57				
05:45		41	48	111	172	8	50	24	219	135	391
06:00		39	49			10	54				
06:15		35	37			8	48				
06:30		39	36			12	37				
06:45		31	36	144	158	14	31	44	170	188	328
07:00		**45**	36			18	41				
07:15		**49**	23			23	33				
07:30		**65**	23			19	38				
07:45		**61**	19	220	101	**31**	29	91	141	311	242
08:00		42	15			**42**	30				
08:15		33	21			**24**	31				
08:30		43	14			**29**	18				
08:45		25	7	143	57	14	24	109	103	252	160
09:00		21	11			11	19				
09:15		24	9			19	15				
09:30		24	18			25	17				
09:45		26	8	95	46	28	22	83	73	178	119
10:00		16	10			19	16				
10:15		24	2			17	10				
10:30		19	5			15	10				
10:45		26	10	85	27	13	16	64	52	149	79
11:00		29	10			22	10				
11:15		35	7			30	14				
11:30		24	6			25	5				
11:45		39	7	127	30	30	8	107	37	234	67
Total		1015	1261	1015	1261	567	1648	567	1648	1582	2909
Combined Total		2276		2276		2215		2215		4491	
AM Peak	-	07:00	-	-	-	07:45	-	-	-	-	-
Vol.	-	220	-	-	-	126	-	-	-	-	-
P.H.F.		0.846				0.750					
PM Peak	-	-	02:45	-	-	-	03:00	-	-	-	-
Vol.	-	-	188	-	-	-	265	-	-	-	-
P.H.F.			0.904				0.908				
Percentage		44.6%	55.4%			25.6%	74.4%				
ADT/AADT		ADT 4,491		AADT 4,491							

Appendix E - LOS Calculation Worksheets – Existing Conditions

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	12	54	1	19	4	35	13	3	5	17	16
Future Vol, veh/h	9	12	54	1	19	4	35	13	3	5	17	16
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	14	64	1	22	5	41	15	4	6	20	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	158	147	37	185	154	18	42	0	0	20	0	0
Stage 1	45	45	-	100	100	-	-	-	-	-	-	-
Stage 2	113	102	-	85	54	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	808	744	1035	776	738	1061	1567	-	-	1596	-	-
Stage 1	969	857	-	906	812	-	-	-	-	-	-	-
Stage 2	892	811	-	923	850	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	764	718	1028	697	712	1060	1563	-	-	1594	-	-
Mov Cap-2 Maneuver	764	718	-	697	712	-	-	-	-	-	-	-
Stage 1	940	851	-	881	789	-	-	-	-	-	-	-
Stage 2	840	788	-	845	844	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.3	10	5.1	1
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1563	-	-	926	752	1594	-	-
HCM Lane V/C Ratio	0.026	-	-	0.095	0.038	0.004	-	-
HCM Control Delay (s)	7.4	0	-	9.3	10	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.1	0	-	-

Intersection	
Int Delay, s/veh	6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	16	33	2	7	1	45	27	5	1	18	11
Future Vol, veh/h	20	16	33	2	7	1	45	27	5	1	18	11
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	18	36	2	8	1	49	30	5	1	20	12

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	171	172	35	190	176	36	40	0	0	38	0	0
Stage 1	36	36	-	134	134	-	-	-	-	-	-	-
Stage 2	135	136	-	56	42	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	792	721	1038	770	717	1037	1570	-	-	1572	-	-
Stage 1	980	865	-	869	785	-	-	-	-	-	-	-
Stage 2	868	784	-	956	860	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	759	689	1029	708	685	1034	1558	-	-	1568	-	-
Mov Cap-2 Maneuver	759	689	-	708	685	-	-	-	-	-	-	-
Stage 1	942	857	-	839	758	-	-	-	-	-	-	-
Stage 2	831	757	-	902	852	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.7	10.1	4.3	0.2
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1558	-	-	845	714	1568	-	-
HCM Lane V/C Ratio	0.032	-	-	0.09	0.015	0.001	-	-
HCM Control Delay (s)	7.4	0	-	9.7	10.1	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	2	83	64	2	39	24
Future Vol, veh/h	2	83	64	2	39	24
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	102	79	2	48	30
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7	7.9	7.6
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	62%	0%	97%
Vol Thru, %	0%	2%	3%
Vol Right, %	38%	98%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	63	85	66
LT Vol	39	0	64
Through Vol	0	2	2
RT Vol	24	83	0
Lane Flow Rate	78	105	81
Geometry Grp	1	1	1
Degree of Util (X)	0.09	0.103	0.098
Departure Headway (Hd)	4.147	3.545	4.345
Convergence, Y/N	Yes	Yes	Yes
Cap	856	999	821
Service Time	2.215	1.61	2.396
HCM Lane V/C Ratio	0.091	0.105	0.099
HCM Control Delay	7.6	7	7.9
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.3	0.3	0.3

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	2	50	28	4	76	33
Future Vol, veh/h	2	50	28	4	76	33
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	58	33	5	88	38
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	6.9	7.7	7.8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	70%	0%	88%
Vol Thru, %	0%	4%	12%
Vol Right, %	30%	96%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	109	52	32
LT Vol	76	0	28
Through Vol	0	2	4
RT Vol	33	50	0
Lane Flow Rate	127	60	37
Geometry Grp	1	1	1
Degree of Util (X)	0.143	0.061	0.045
Departure Headway (Hd)	4.06	3.608	4.38
Convergence, Y/N	Yes	Yes	Yes
Cap	881	980	810
Service Time	2.097	1.678	2.446
HCM Lane V/C Ratio	0.144	0.061	0.046
HCM Control Delay	7.8	6.9	7.7
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.5	0.2	0.1

Intersection	
Int Delay, s/veh	6.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	1	3	45	41	3	5	9	108	9	37
Future Vol, veh/h	20	40	1	3	45	41	3	5	9	108	9	37
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	53	1	4	59	54	4	7	12	142	12	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	141	0	0	89	0	0	268	290	98	246	263	116
Stage 1	-	-	-	-	-	-	141	141	-	122	122	-
Stage 2	-	-	-	-	-	-	127	149	-	124	141	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1442	-	-	1506	-	-	685	620	958	708	642	936
Stage 1	-	-	-	-	-	-	862	780	-	882	795	-
Stage 2	-	-	-	-	-	-	877	774	-	880	780	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1404	-	-	1456	-	-	606	570	918	657	591	909
Mov Cap-2 Maneuver	-	-	-	-	-	-	606	570	-	657	591	-
Stage 1	-	-	-	-	-	-	817	740	-	842	771	-
Stage 2	-	-	-	-	-	-	813	751	-	837	740	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.3	10.1	12.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	723	1404	-	-	1456	-	-	699
HCM Lane V/C Ratio	0.031	0.019	-	-	0.003	-	-	0.29
HCM Control Delay (s)	10.1	7.6	0	-	7.5	0	-	12.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0	-	-	1.2

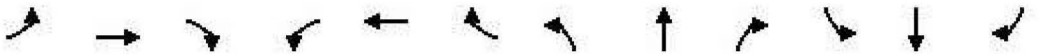
Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	15	30	2	9	37	94	2	8	5	70	3	15
Future Vol, veh/h	15	30	2	9	37	94	2	8	5	70	3	15
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	34	2	10	43	108	2	9	6	80	3	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	54	0	0	215	264	67	214	211	104
Stage 1	-	-	-	-	-	-	87	87	-	123	123	-
Stage 2	-	-	-	-	-	-	128	177	-	91	88	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1551	-	-	742	641	997	743	686	951
Stage 1	-	-	-	-	-	-	921	823	-	881	794	-
Stage 2	-	-	-	-	-	-	876	753	-	916	822	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1415	-	-	1524	-	-	702	615	967	706	658	945
Mov Cap-2 Maneuver	-	-	-	-	-	-	702	615	-	706	658	-
Stage 1	-	-	-	-	-	-	894	799	-	865	784	-
Stage 2	-	-	-	-	-	-	849	743	-	877	798	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.4	0.5	10.2	10.7
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	713	1415	-	-	1524	-	-	736
HCM Lane V/C Ratio	0.024	0.012	-	-	0.007	-	-	0.137
HCM Control Delay (s)	10.2	7.6	0	-	7.4	0	-	10.7
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.5



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	68	130	465	89	215	100	816	309	104	817	42
Future Volume (veh/h)	24	68	130	465	89	215	100	816	309	104	817	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.90	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	25	70	107	479	92	199	103	841	255	107	842	35
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	42	288	220	536	149	323	128	2221	668	132	1554	667
Arrive On Green	0.02	0.15	0.15	0.16	0.29	0.29	0.07	0.43	0.43	0.07	0.44	0.44
Sat Flow, veh/h	1781	1870	1431	3456	523	1130	1781	5106	1536	1781	3554	1526
Grp Volume(v), veh/h	25	70	107	479	0	291	103	841	255	107	842	35
Grp Sat Flow(s),veh/h/ln	1781	1870	1431	1728	0	1653	1781	1702	1536	1781	1777	1526
Q Serve(g_s), s	1.7	3.9	8.2	16.3	0.0	18.3	6.8	13.4	13.5	7.1	21.0	1.6
Cycle Q Clear(g_c), s	1.7	3.9	8.2	16.3	0.0	18.3	6.8	13.4	13.5	7.1	21.0	1.6
Prop In Lane	1.00		1.00	1.00		0.68	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	42	288	220	536	0	472	128	2221	668	132	1554	667
V/C Ratio(X)	0.60	0.24	0.49	0.89	0.00	0.62	0.81	0.38	0.38	0.81	0.54	0.05
Avail Cap(c_a), veh/h	211	373	285	582	0	472	211	2221	668	211	1554	667
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.0	44.6	46.4	49.7	0.0	37.2	54.9	22.9	23.0	54.7	24.9	19.4
Incr Delay (d2), s/veh	9.6	0.4	1.7	15.1	0.0	2.4	8.5	0.5	1.7	9.0	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.9	2.9	8.0	0.0	7.5	3.3	5.2	5.0	3.4	8.6	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.6	45.0	48.1	64.8	0.0	39.6	63.4	23.4	24.6	63.8	26.3	19.6
LnGrp LOS	E	D	D	E	A	D	E	C	C	E	C	B
Approach Vol, veh/h		202			770			1199			984	
Approach Delay, s/veh		49.4			55.3			27.1			30.1	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	58.0	23.7	24.3	13.7	58.3	7.9	40.1
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	14.2	39.9	20.2	23.9	14.2	39.9	14.2	29.9
Max Q Clear Time (g_c+I1), s	9.1	15.5	18.3	10.2	8.8	23.0	3.7	20.3
Green Ext Time (p_c), s	0.1	10.9	0.3	0.6	0.1	7.6	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	36.3
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	83	121	255	103	87	225	765	427	248	981	49
Future Volume (veh/h)	60	83	121	255	103	87	225	765	427	248	981	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.87	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	84	98	258	104	79	227	773	344	251	991	39
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	79	310	227	317	207	157	253	2208	661	275	1580	684
Arrive On Green	0.04	0.17	0.17	0.09	0.21	0.21	0.14	0.43	0.43	0.15	0.44	0.44
Sat Flow, veh/h	1781	1870	1373	3456	970	737	1781	5106	1528	1781	3554	1539
Grp Volume(v), veh/h	61	84	98	258	0	183	227	773	344	251	991	39
Grp Sat Flow(s),veh/h/ln	1781	1870	1373	1728	0	1707	1781	1702	1528	1781	1777	1539
Q Serve(g_s), s	4.7	5.5	9.0	10.3	0.0	13.2	17.5	14.2	23.1	19.4	30.1	2.0
Cycle Q Clear(g_c), s	4.7	5.5	9.0	10.3	0.0	13.2	17.5	14.2	23.1	19.4	30.1	2.0
Prop In Lane	1.00		1.00	1.00		0.43	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	79	310	227	317	0	363	253	2208	661	275	1580	684
V/C Ratio(X)	0.77	0.27	0.43	0.81	0.00	0.50	0.90	0.35	0.52	0.91	0.63	0.06
Avail Cap(c_a), veh/h	461	350	257	763	0	363	461	2208	661	333	1580	684
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	66.2	51.0	52.5	62.4	0.0	48.6	59.0	26.6	29.1	58.2	29.9	22.1
Incr Delay (d2), s/veh	11.2	0.5	1.3	3.8	0.0	1.1	8.3	0.4	2.9	24.5	1.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	2.7	3.1	4.6	0.0	5.6	8.3	5.7	8.7	10.4	12.7	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.4	51.5	53.8	66.2	0.0	49.7	67.3	27.0	32.0	82.7	31.8	22.3
LnGrp LOS	E	D	D	E	A	D	E	C	C	F	C	C
Approach Vol, veh/h		243			441			1344			1281	
Approach Delay, s/veh		58.9			59.4			35.1			41.5	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.7	66.4	17.9	29.0	25.0	68.1	11.3	35.6
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	26.2	34.9	30.9	26.2	36.2	24.9	36.2	20.9
Max Q Clear Time (g_c+I1), s	21.4	25.1	12.3	11.0	19.5	32.1	6.7	15.2
Green Ext Time (p_c), s	0.2	6.0	0.6	0.7	0.4	0.0	0.1	0.4

Intersection Summary	
HCM 6th Ctrl Delay	42.6
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

Appendix F - LOS Calculation Worksheets – Existing with Project Conditions

Intersection	
Int Delay, s/veh	6.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	12	56	1	19	4	43	13	3	5	17	16
Future Vol, veh/h	9	12	56	1	19	4	43	13	3	5	17	16
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	14	66	1	22	5	51	15	4	6	20	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	178	167	37	206	174	18	42	0	0	20	0	0
Stage 1	45	45	-	120	120	-	-	-	-	-	-	-
Stage 2	133	122	-	86	54	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	784	726	1035	752	719	1061	1567	-	-	1596	-	-
Stage 1	969	857	-	884	796	-	-	-	-	-	-	-
Stage 2	870	795	-	922	850	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	738	696	1028	670	690	1060	1563	-	-	1594	-	-
Mov Cap-2 Maneuver	738	696	-	670	690	-	-	-	-	-	-	-
Stage 1	934	851	-	854	769	-	-	-	-	-	-	-
Stage 2	813	768	-	842	844	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.4	10.1	5.4	1
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1563	-	-	918	732	1594	-	-
HCM Lane V/C Ratio	0.032	-	-	0.099	0.039	0.004	-	-
HCM Control Delay (s)	7.4	0	-	9.4	10.1	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.1	0	-	-

Intersection	
Int Delay, s/veh	6.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	16	42	2	7	1	49	27	5	1	18	11
Future Vol, veh/h	20	16	42	2	7	1	49	27	5	1	18	11
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	18	46	2	8	1	54	30	5	1	20	12

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	181	182	35	205	186	36	40	0	0	38	0	0
Stage 1	36	36	-	144	144	-	-	-	-	-	-	-
Stage 2	145	146	-	61	42	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	781	712	1038	753	708	1037	1570	-	-	1572	-	-
Stage 1	980	865	-	859	778	-	-	-	-	-	-	-
Stage 2	858	776	-	950	860	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	747	679	1029	683	675	1034	1558	-	-	1568	-	-
Mov Cap-2 Maneuver	747	679	-	683	675	-	-	-	-	-	-	-
Stage 1	939	857	-	826	748	-	-	-	-	-	-	-
Stage 2	819	747	-	887	852	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.7	10.2	4.5	0.2
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1558	-	-	856	701	1568	-	-
HCM Lane V/C Ratio	0.035	-	-	0.1	0.016	0.001	-	-
HCM Control Delay (s)	7.4	0	-	9.7	10.2	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	150	64	4	56	24
Future Vol, veh/h	10	150	64	4	56	24
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	185	79	5	69	30
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.6	8.1	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	70%	0%	94%
Vol Thru, %	0%	6%	6%
Vol Right, %	30%	94%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	80	160	68
LT Vol	56	0	64
Through Vol	0	10	4
RT Vol	24	150	0
Lane Flow Rate	99	198	84
Geometry Grp	1	1	1
Degree of Util (X)	0.12	0.198	0.104
Departure Headway (Hd)	4.375	3.609	4.45
Convergence, Y/N	Yes	Yes	Yes
Cap	807	976	795
Service Time	2.47	1.698	2.535
HCM Lane V/C Ratio	0.123	0.203	0.106
HCM Control Delay	8.1	7.6	8.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.4	0.7	0.3

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	6	82	28	13	150	33
Future Vol, veh/h	6	82	28	13	150	33
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	95	33	15	174	38
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.4	8	8.8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	82%	0%	68%
Vol Thru, %	0%	7%	32%
Vol Right, %	18%	93%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	183	88	41
LT Vol	150	0	28
Through Vol	0	6	13
RT Vol	33	82	0
Lane Flow Rate	213	102	48
Geometry Grp	1	1	1
Degree of Util (X)	0.251	0.112	0.062
Departure Headway (Hd)	4.247	3.923	4.668
Convergence, Y/N	Yes	Yes	Yes
Cap	836	919	771
Service Time	2.325	1.925	2.672
HCM Lane V/C Ratio	0.255	0.111	0.062
HCM Control Delay	8.8	7.4	8
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1	0.4	0.2

Intersection	
Int Delay, s/veh	8.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	1	3	45	56	3	7	9	167	17	37
Future Vol, veh/h	20	40	1	3	45	56	3	7	9	167	17	37
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	53	1	4	59	74	4	9	12	220	22	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	161	0	0	89	0	0	283	310	98	257	273	126
Stage 1	-	-	-	-	-	-	141	141	-	132	132	-
Stage 2	-	-	-	-	-	-	142	169	-	125	141	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1418	-	-	1506	-	-	669	605	958	696	634	924
Stage 1	-	-	-	-	-	-	862	780	-	871	787	-
Stage 2	-	-	-	-	-	-	861	759	-	879	780	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1380	-	-	1456	-	-	583	557	918	644	583	898
Mov Cap-2 Maneuver	-	-	-	-	-	-	583	557	-	644	583	-
Stage 1	-	-	-	-	-	-	817	740	-	832	763	-
Stage 2	-	-	-	-	-	-	787	736	-	833	740	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.2	10.4	14.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	690	1380	-	-	1456	-	-	670
HCM Lane V/C Ratio	0.036	0.019	-	-	0.003	-	-	0.434
HCM Control Delay (s)	10.4	7.7	0	-	7.5	0	-	14.4
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0	-	-	2.2

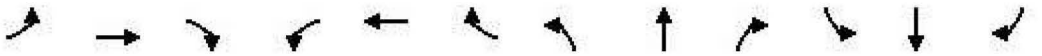
Intersection	
Int Delay, s/veh	4.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	15	30	2	9	37	158	2	17	5	98	7	15
Future Vol, veh/h	15	30	2	9	37	158	2	17	5	98	7	15
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	34	2	10	43	182	2	20	6	113	8	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	231	0	0	54	0	0	255	338	67	256	248	141
Stage 1	-	-	-	-	-	-	87	87	-	160	160	-
Stage 2	-	-	-	-	-	-	168	251	-	96	88	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1337	-	-	1551	-	-	698	583	997	697	655	907
Stage 1	-	-	-	-	-	-	921	823	-	842	766	-
Stage 2	-	-	-	-	-	-	834	699	-	911	822	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1329	-	-	1524	-	-	655	558	967	651	627	901
Mov Cap-2 Maneuver	-	-	-	-	-	-	655	558	-	651	627	-
Stage 1	-	-	-	-	-	-	893	798	-	826	755	-
Stage 2	-	-	-	-	-	-	802	689	-	860	797	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.3	11.1	11.7
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	620	1329	-	-	1524	-	-	673
HCM Lane V/C Ratio	0.044	0.013	-	-	0.007	-	-	0.205
HCM Control Delay (s)	11.1	7.7	0	-	7.4	0	-	11.7
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.8



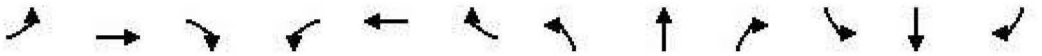
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	85	155	465	93	215	106	816	309	104	817	46
Future Volume (veh/h)	41	85	155	465	93	215	106	816	309	104	817	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	42	88	127	479	96	199	109	841	255	107	842	37
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	56	299	230	536	153	317	134	2191	659	132	1521	653
Arrive On Green	0.03	0.16	0.16	0.16	0.28	0.28	0.08	0.43	0.43	0.07	0.43	0.43
Sat Flow, veh/h	1781	1870	1436	3456	539	1117	1781	5106	1536	1781	3554	1525
Grp Volume(v), veh/h	42	88	127	479	0	295	109	841	255	107	842	37
Grp Sat Flow(s),veh/h/ln	1781	1870	1436	1728	0	1655	1781	1702	1536	1781	1777	1525
Q Serve(g_s), s	2.8	5.0	9.8	16.3	0.0	18.6	7.2	13.5	13.6	7.1	21.3	1.7
Cycle Q Clear(g_c), s	2.8	5.0	9.8	16.3	0.0	18.6	7.2	13.5	13.6	7.1	21.3	1.7
Prop In Lane	1.00		1.00	1.00		0.67	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	56	299	230	536	0	469	134	2191	659	132	1521	653
V/C Ratio(X)	0.75	0.29	0.55	0.89	0.00	0.63	0.81	0.38	0.39	0.81	0.55	0.06
Avail Cap(c_a), veh/h	211	373	286	582	0	469	211	2191	659	211	1521	653
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.7	44.4	46.5	49.7	0.0	37.5	54.6	23.4	23.5	54.7	25.7	20.1
Incr Delay (d2), s/veh	13.9	0.5	2.1	15.1	0.0	2.7	9.8	0.5	1.7	9.0	1.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	2.4	3.5	8.0	0.0	7.6	3.5	5.3	5.0	3.4	8.8	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.5	45.0	48.5	64.8	0.0	40.1	64.4	23.9	25.2	63.8	27.2	20.3
LnGrp LOS	E	D	D	E	A	D	E	C	C	E	C	C
Approach Vol, veh/h		257			774			1205			986	
Approach Delay, s/veh		51.1			55.4			27.8			30.9	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	57.3	23.7	25.0	14.2	57.1	8.9	39.8
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	14.2	39.9	20.2	23.9	14.2	39.9	14.2	29.9
Max Q Clear Time (g_c+I1), s	9.1	15.6	18.3	11.8	9.2	23.3	4.8	20.6
Green Ext Time (p_c), s	0.1	10.9	0.3	0.7	0.1	7.5	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	37.3
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	91	133	255	121	87	253	765	427	248	981	67
Future Volume (veh/h)	68	91	133	255	121	87	253	765	427	248	981	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.87	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	69	92	110	258	122	79	256	773	344	251	991	58
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	89	313	230	317	218	141	282	2200	658	275	1517	656
Arrive On Green	0.05	0.17	0.17	0.09	0.21	0.21	0.16	0.43	0.43	0.15	0.43	0.43
Sat Flow, veh/h	1781	1870	1375	3456	1044	676	1781	5106	1528	1781	3554	1538
Grp Volume(v), veh/h	69	92	110	258	0	201	256	773	344	251	991	58
Grp Sat Flow(s),veh/h/ln	1781	1870	1375	1728	0	1720	1781	1702	1528	1781	1777	1538
Q Serve(g_s), s	5.4	6.0	10.1	10.3	0.0	14.7	19.8	14.2	23.2	19.4	31.0	3.1
Cycle Q Clear(g_c), s	5.4	6.0	10.1	10.3	0.0	14.7	19.8	14.2	23.2	19.4	31.0	3.1
Prop In Lane	1.00		1.00	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	89	313	230	317	0	360	282	2200	658	275	1517	656
V/C Ratio(X)	0.78	0.29	0.48	0.81	0.00	0.56	0.91	0.35	0.52	0.91	0.65	0.09
Avail Cap(c_a), veh/h	461	350	257	763	0	360	461	2200	658	333	1517	656
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.8	51.1	52.8	62.4	0.0	49.6	57.9	26.7	29.3	58.2	31.9	23.9
Incr Delay (d2), s/veh	10.3	0.5	1.5	3.8	0.0	1.9	12.2	0.4	3.0	24.5	2.2	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	2.9	3.5	4.6	0.0	6.4	9.7	5.7	8.8	10.4	13.2	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.1	51.6	54.3	66.2	0.0	51.5	70.0	27.2	32.2	82.7	34.1	24.2
LnGrp LOS	E	D	D	E	A	D	E	C	C	F	C	C
Approach Vol, veh/h		271			459			1373			1300	
Approach Delay, s/veh		58.9			59.8			36.4			43.0	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.7	66.1	17.9	29.2	27.3	65.5	12.1	35.1
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	26.2	34.9	30.9	26.2	36.2	24.9	36.2	20.9
Max Q Clear Time (g_c+I1), s	21.4	25.2	12.3	12.1	21.8	33.0	7.4	16.7
Green Ext Time (p_c), s	0.2	6.0	0.6	0.7	0.4	0.0	0.1	0.4

Intersection Summary	
HCM 6th Ctrl Delay	43.9
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

Intersection	
Int Delay, s/veh	4.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	19	51	8	76	72	2
Future Vol, veh/h	19	51	8	76	72	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	55	9	83	78	2

Major/Minor	Minor2		Major2	
Conflicting Flow All	158	2	0	0
Stage 1	158	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	734	1082	-	-
Stage 1	767	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1082	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.6	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1082	-	-
HCM Lane V/C Ratio	0.084	-	-
HCM Control Delay (s)	8.6	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.3	-	-

Intersection	
Int Delay, s/veh	3.3

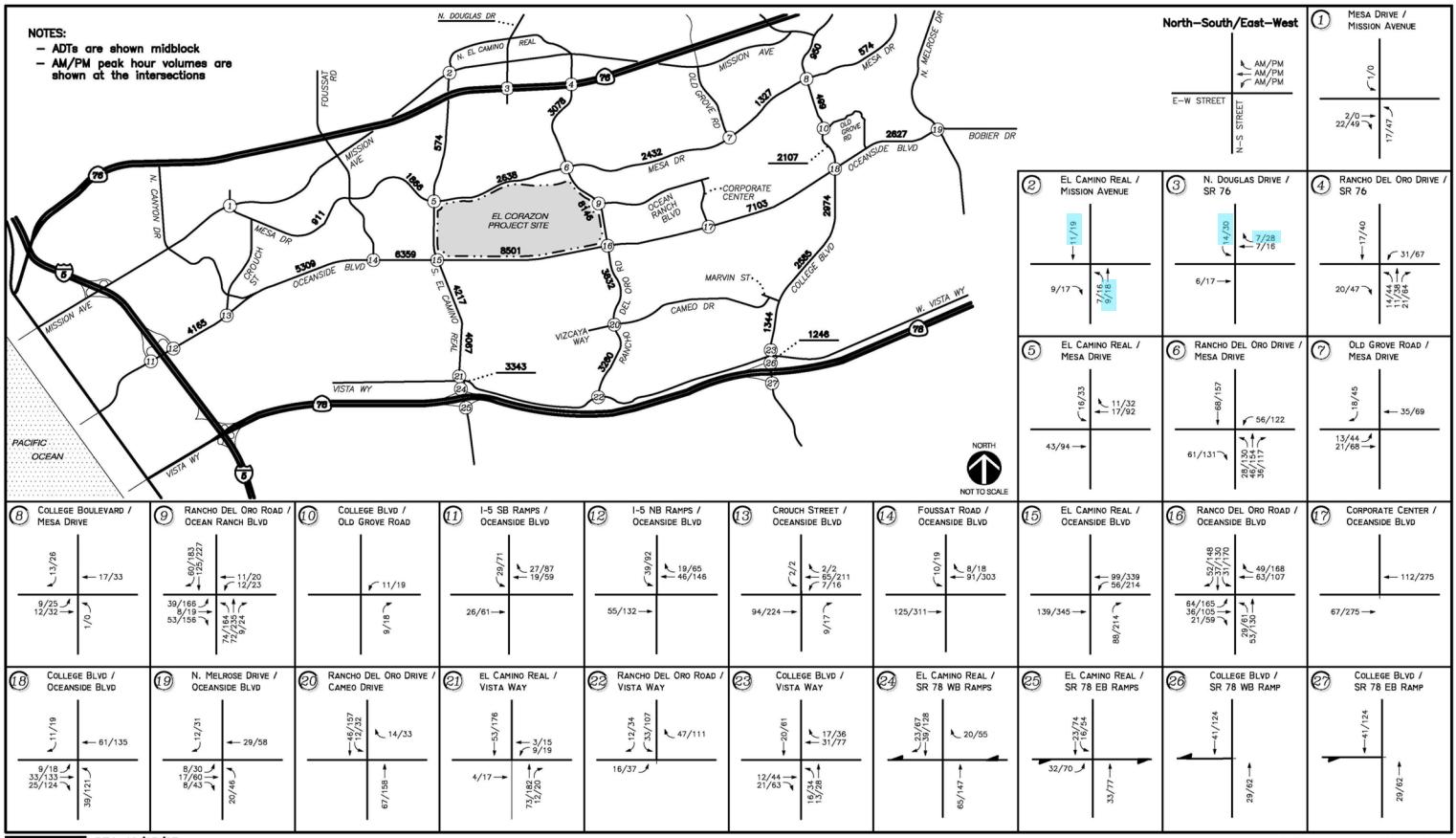
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	83	77	4	36	53	9
Future Vol, veh/h	83	77	4	36	53	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	90	84	4	39	58	10

Major/Minor	Minor2		Major2	
Conflicting Flow All	126	10	0	0
Stage 1	126	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	764	1071	-	-
Stage 1	792	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1071	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.5	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1071	-	-
HCM Lane V/C Ratio	0.041	-	-
HCM Control Delay (s)	8.5	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-

Appendix G - Cumulative Project Information



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REV. 10/15/07
LLG1666 FIG10–2b

Figure 10-2b

Year 2030 Project Traffic Volumes AM/PM Peak Hours & ADT

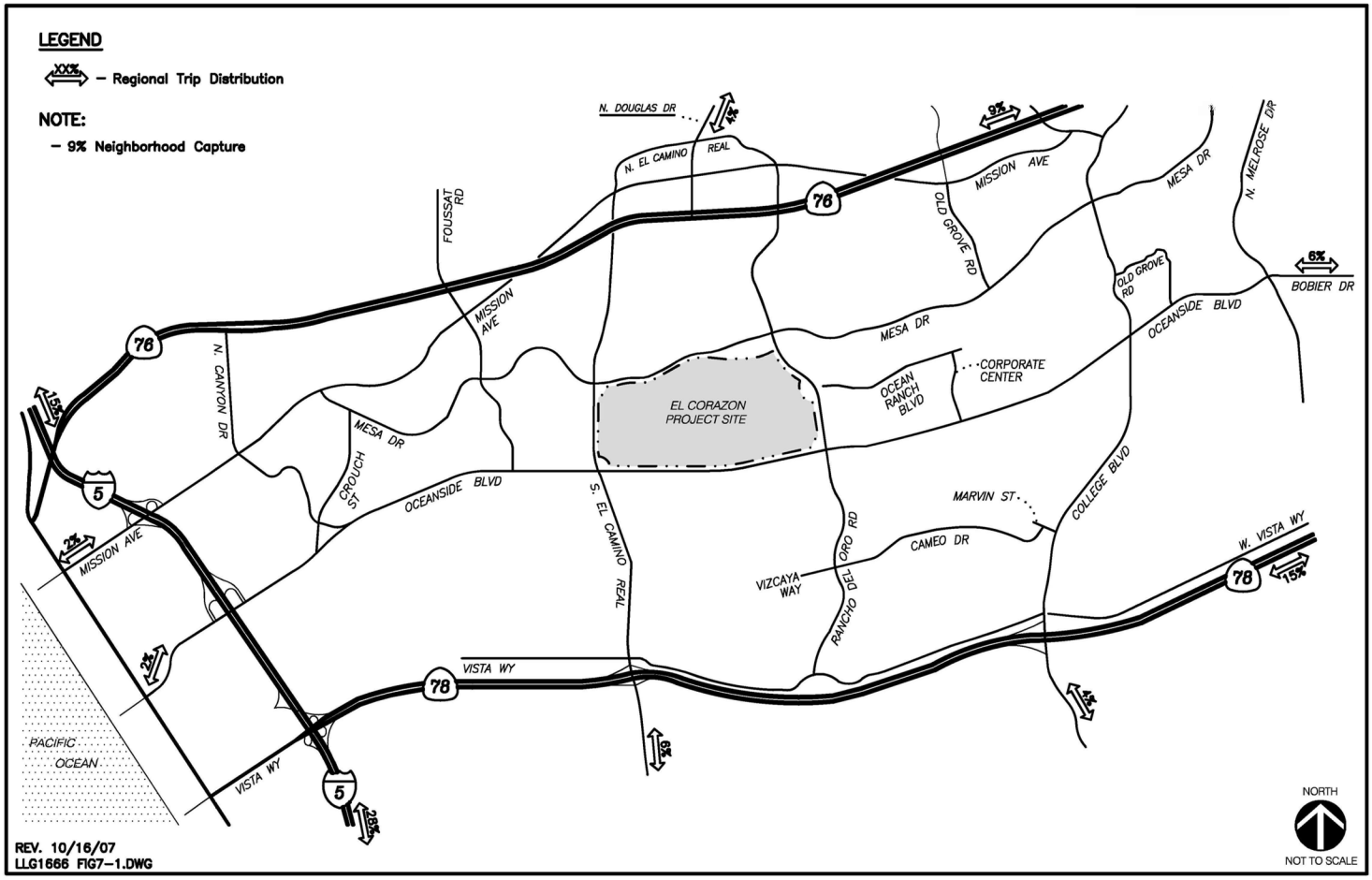

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Figure 7-1

Hotel - Project Regional Traffic Distribution

EL CORAZON

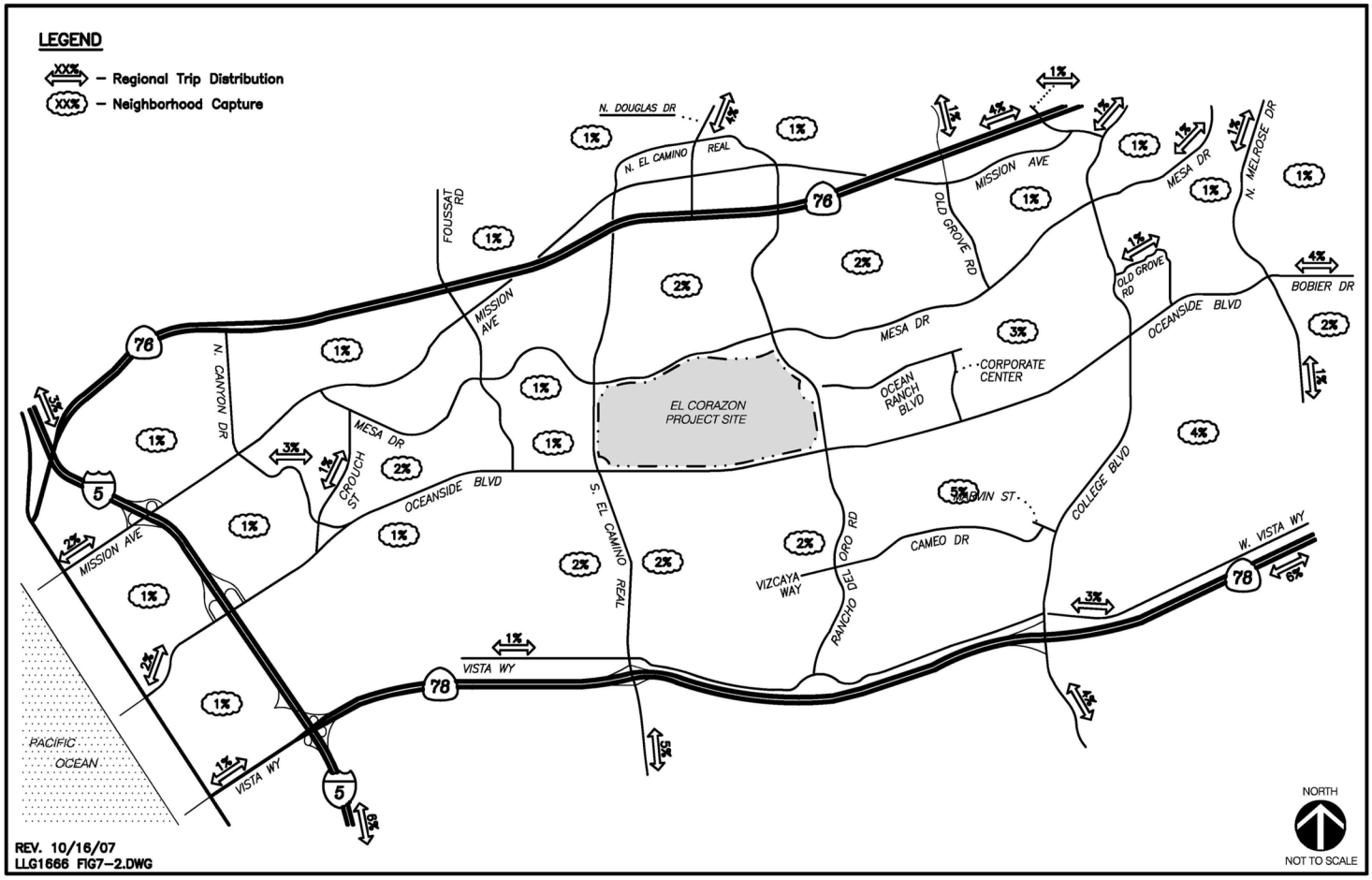

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Figure 7-2

Commercial - Project Regional Traffic Distribution

EL CORAZON

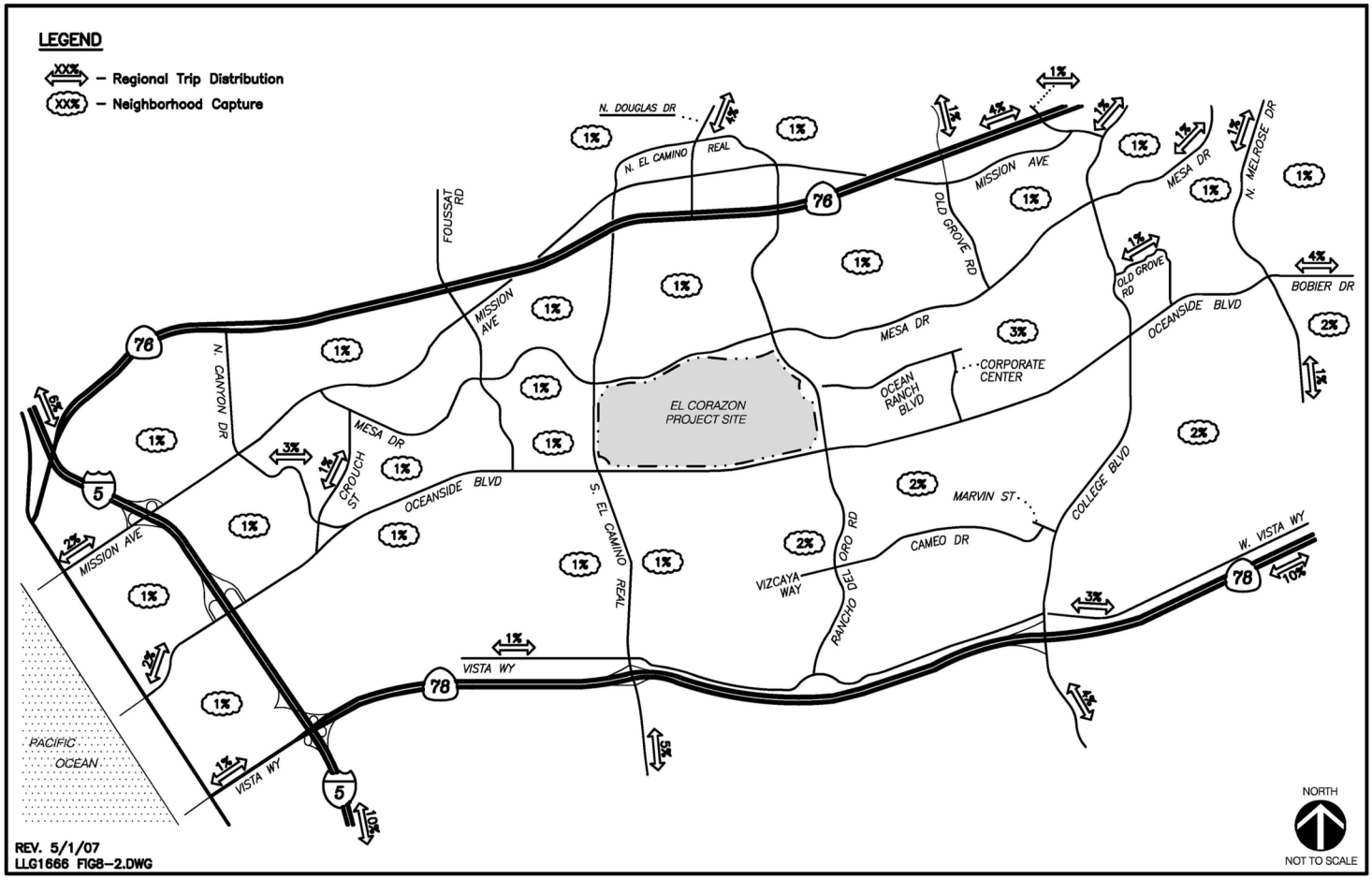

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Figure 8-2

Park - Project Regional Traffic Distribution

EL CORAZON

TABLE 10-1
TRIP GENERATION YEAR 2030 (PHASE V & VI)

Land Use	Quantity	Daily Trip Ends (ADT)		AM Peak Hour					PM Peak Hour				
		Rate	Volume	% of ADT	In:Out Split	Volume			% of ADT	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Park Expansion	19.7 Acres	50 /Acre[3]	985	2%	5:5	10	10	20	13%	5:5	65	64	129
Park Expansion	16 Acres	50 /Acre[3]	800	2%	5:5	8	8	16	13%	5:5	52	52	104
Total Trip Generation (Phase 5&6)			**1,785**			**18**	**18**	**36**			**117**	**116**	**233**
Trip Generation (Phases 1-4) From Table 9-1			32,819			686	474	1,160			1,679	1,658	3,337
Net Year 2030 Trip Generation			**34,604**			**704**	**492**	**1,196**			**1,796**	**1,774**	**3,570**
Net Year 2030 Total Primary Trip Generation			29,614			592	418	1,010			1,483	1,461	2,944
Pass-by Trip Generation For Village Commercial & Commercial Site B			4,990			112	74	186			313	313	626

Footnotes:

1. Generation rate obtained from the SANDAG Brief Guide (April 2002) for Hotel (w/ convention facilities/restaurant).

2. Generation rate obtained from the SANDAG Brief Guide (April 2002) for Specialty Retail/Strip Commercial.

3. Generation rate for daily traffic obtained from the SANDAG Brief Guide (April 2002) for City park (Active Park), and the peak hour percentages and split is based on the additional survey conducted by LLG..

3.4 Project Traffic Generation

The project is a Plan Block Development Plan that will require a General Plan Amendment and rezone from light industrial uses to residential on two parcels for a total of 25.6 acres (Kawano parcel 9.7 acres and Nagata parcel 15.9 acres). A maximum of 400 dwelling units is proposed for a density of 15.6 units per acre (400 units / 25.6 acres).

The site has historically been used for agricultural, packing, and shipping uses. A trip credit was not applied because the previous uses were not in operation when off-site traffic data was collected.

The project traffic generation was calculated using SANDAG trip rates from the *Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region*, April 2002. Based on the project acreage of 25.6 acres and proposed 400 dwelling units, the density is 15.6 units per acre. The SANDAG trip rate is 8 daily trips per dwelling unit for densities between 6 and 20 units per acre.

Using SANDAG traffic generation rates, the project is calculated to generate 3,200 daily trips, 256 AM peak hour trips (51 inbound and 205 outbound), and 320 PM peak hour trips (224 inbound and 96 outbound) as shown in **Table 8**.

TABLE 8: PROJECT TRAFFIC GENERATION

Proposed								AM					PM	
Land Use	Rate	Size & Units	ADT	%	Split		IN	OUT	%	Split		IN	OUT
Residential (density 6-20 du/ac)	8 /DU	400 DU	**3,200**	8%	0.2	0.8	51	205	10%	0.7	0.3	224	96
					Peak hour totals:		**256**					**320**	

Source: SANDAG *Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region,* April 2002. ADT-Average Daily Traffic.

The final product may have a mix of small lot single family and multi-family units; therefore, the trip generation levels (ADT, AM & PM) as analyzed within this report will define the upper limit of traffic that can be generated by the final project type and unit count.

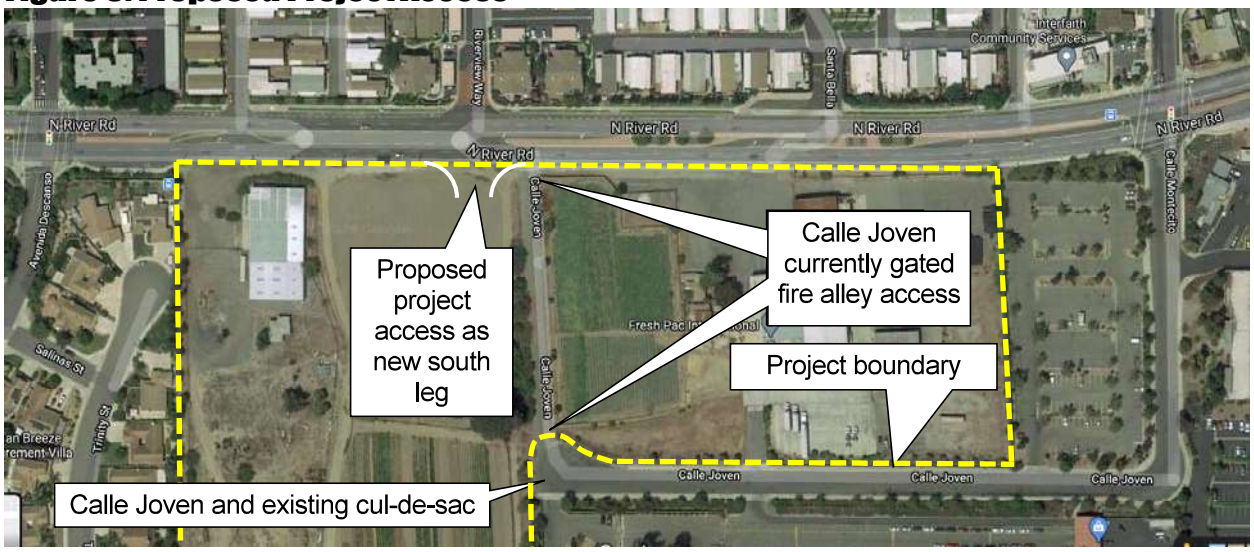
The proposed rezone will replace the existing industrial use with a proposed residential use. The existing industrial zoning could generate a range of traffic based on the type of industrial use. SANDAG trip rates document a range of 200 ADT/acre for an Industrial/Business Park (commercial included) to 90 ADT/acre for an Industrial/Business Park (no commercial). For the project site of 25.6 acres, the industrial trips could range from 5,120 ADT (Industrial/Business Park with commercial) to 2,304 ADT (Industrial/Business Park without commercial). The existing land use has the potential to generate more traffic than the proposed residential land use. However, this is a ground to plan analysis; therefore, a trip credit was not applied for the potential industrial land uses.

3.5 Project Access

Primary project access is proposed by constructing a south leg at the intersection of N. River Road/ Riverview Way. The project applicant proposed to signalize this intersection based on Signal Warrant Condition B "Interruption of Continuous Traffic", which is satisfied with the addition of project traffic. Signal warrant calculations for the project driveway and lane configurations are described within Section 4.16.1 of this report.

A portion of the southern project boundary borders Calle Joven. A secondary access is anticipated to connect with Calle Joven; however, a site design is not completed, thus the internal circulation and connection with Calle Joven has yet to be determined. There is currently a gated fire access alley labeled Calle Joven immediately east of Riverview Way that will be addressed in the final site design. The proposed project access, Calle Joven, and the gated fire access alley are shown in **Figure 8**.

Figure 8: Proposed Project Access



Source: Google Maps

3.6 Project Distribution and Assignment

Project trips were distributed to the adjacent roadway network based on a San Diego Association of Governments (SANDAG) Series 12 Select Zone Assignment (SZA) that was reviewed and adjusted by City staff. A copy of the SZA is included in **Appendix G**. The project distribution shown in **Figure 9**. The project assignment is shown in **Figure 10.**

Figure 9: Project Distribution

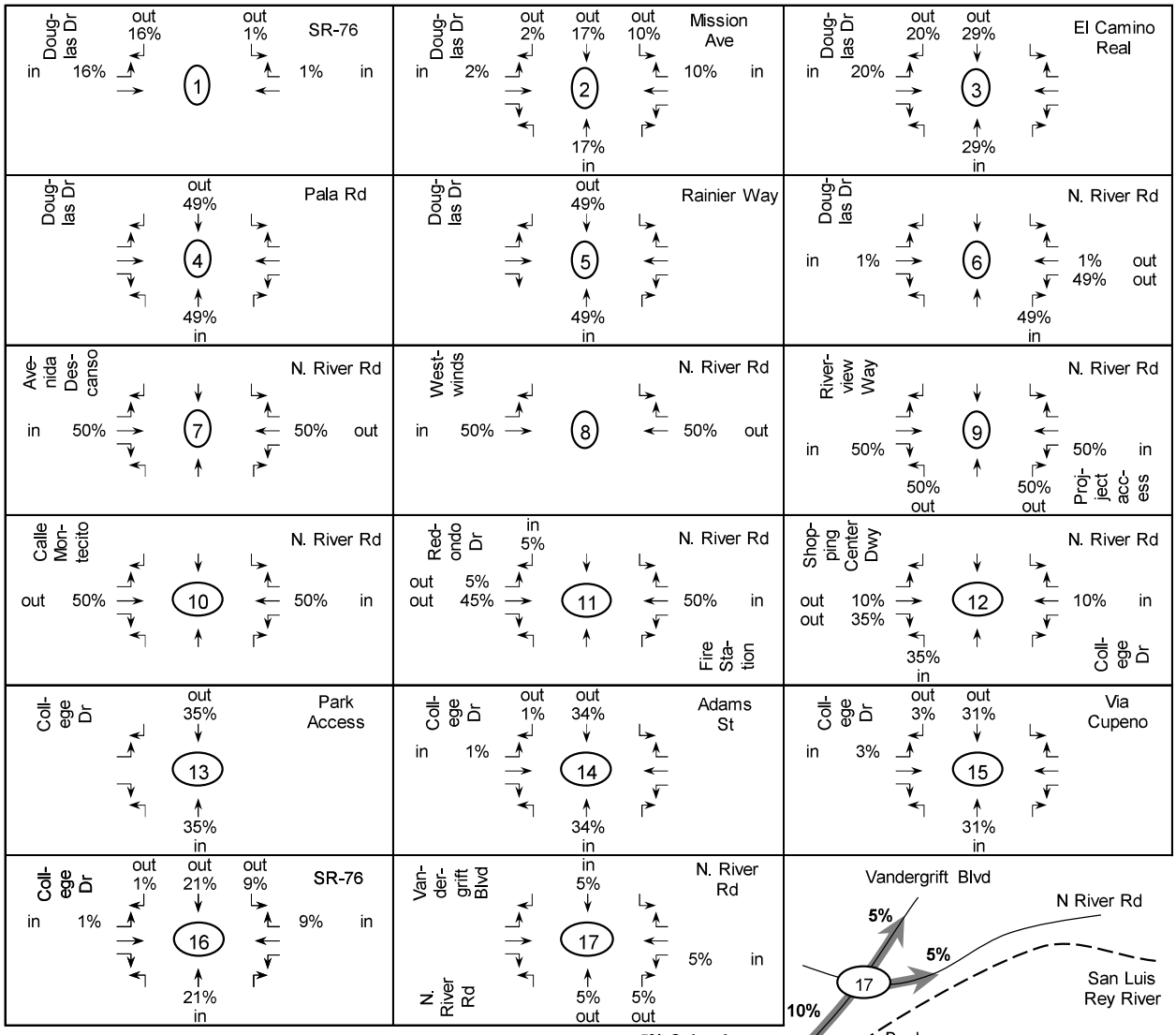
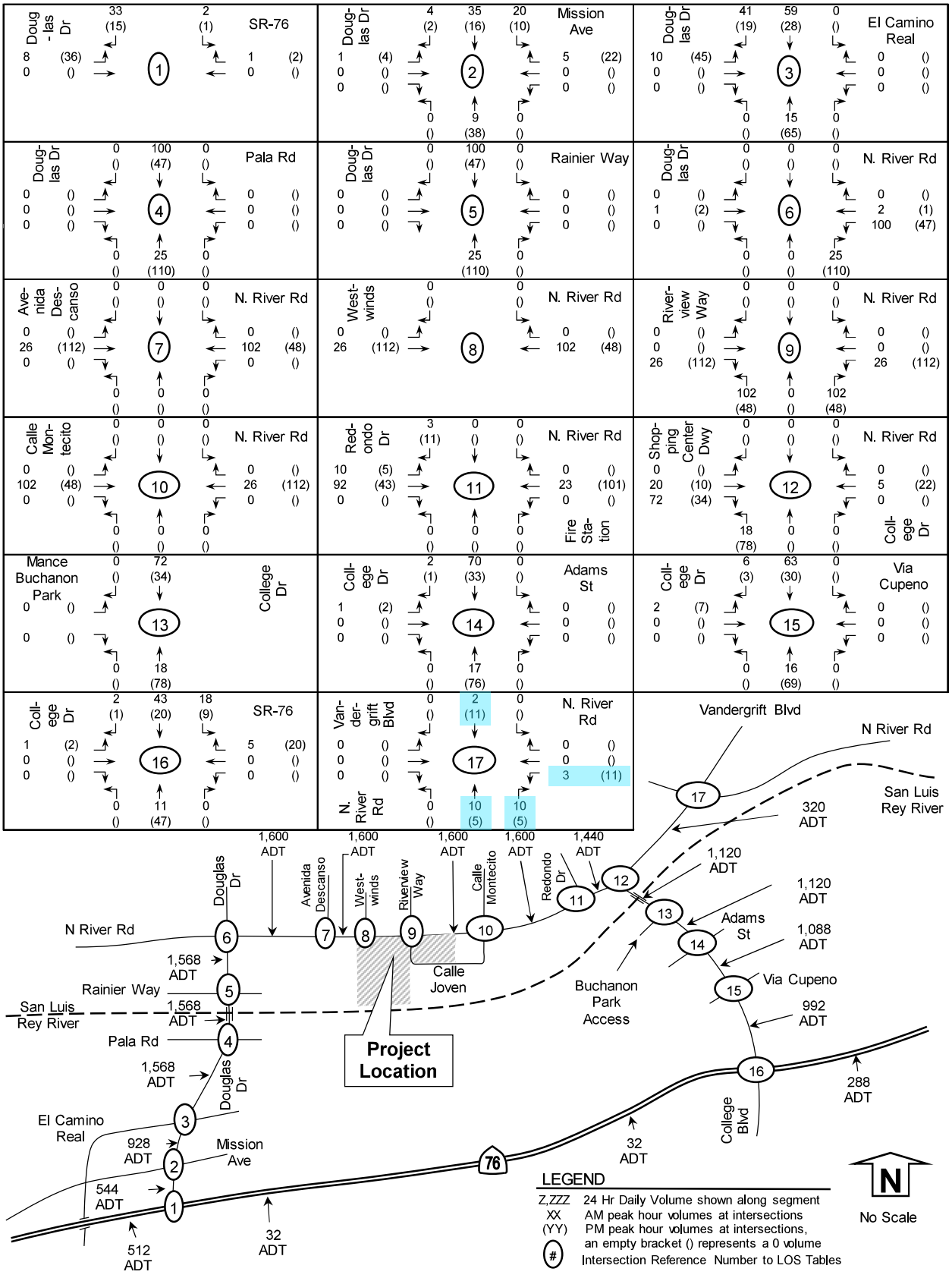


Figure 10: Project Volumes



7.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

A highly descriptive discussion of the proposed Project land uses is detailed in *Section 2.2* of this report. As discussed in *Section 2.2* of this report, the Project proposes to develop the approximately 176.63-acre site with 689 residential units and would also include commercial and restaurant uses, a local farm, and a hotel. The residential portion of the Project proposes a mix of housing types including single-family detached homes, multi-family attached homes, and mixed-use residential units (located above or in close proximity to commercial uses in the Village Core). The following is a discussion on the traffic expected to be generated with the development of the Project.

7.1 Trip Generation

Gross Trip Generation

Trip generation for the proposed development was calculated using the SANDAG *(Not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region*, April 2002. With the changes in housing types proposed, three (3) different residential trip rates were used to calculate the total Project trip generation. The residential trip rates were selected based on the density for each Planning Area. The commercial portion of the site representing the Maker Spaces and Farmers' Market land use types uses the SANDAG "specialty retail" rates and the restaurant uses the "quality restaurant" rate. The proposed farm use uses the SANDAG "agriculture" rate in the calculations and the hotel use utilizes a modified "hotel" rate from SANDAG. The hotel rate was reduced from 10 ADT/room to 9 ADT/room since the hotel does not propose to include convention facilities that are included in the typical "hotel w/ convention facilities/restaurant" rate from SANDAG. The hotel is labeled as a "boutique" hotel that would utilize the community amenities as ancillary uses to the hotel.

Primary / Pass-By Trips

Development of new land uses will create trips on a street system that are new, or "primary" trips. However, several types of retail/commercial developments experience local and regional trips at the driveway that are already on the street system whether that development exists or not. These trips are known as "pass-by" trips.

Pass-by trips that are already on the street system passing along the Project frontage (North River Road), and only appear as new trips in and out of the Project driveways. Using engineering guidelines, 10% of daily and PM peak hour commercial traffic is categorized as pass-by.

Primary Trips

The remaining trips (90%) are those that are new to the street system, also called "primary" trips. These trips occur due to the development of the Project and the Project itself becomes one end of a primary trip, either the origin or the destination.

Net Trip Generation

After accounting for pass-by trips, a mixed-use reduction was applied to the remaining commercial and residential trips. Per the SANDAG guide, up to a 10% mixed-use reduction can be applied to

projects “where residential and commercial retail are combined (demonstrate mode split of walking trips to replace vehicular trips).” Given the detailed explanation of the walkability of the Project site in *Section 2.2* of this report, as well as in the Planned Development Plan prepared by the applicant, a mixed-use reduction was deemed appropriate. To provide a conservative reduction, 5% was applied to the Project trip generation.

Table 7–1 shows the Project traffic generation.

TABLE 7–1
PROJECT TRIP GENERATION

	Land Use	Size		Daily Trip Ends (ADTs)		AM Peak Hour						PM Peak Hour					
				Rate [a]	Volume	% of ADT [a]	In:Out Split		Volume In	Volume Out	Volume Total	% of ADT [a]	In:Out Split		Volume In	Volume Out	Volume Total
–	**RESIDENTIAL TRIPS**																
–	**UNIT TYPE**																
–	Single-Family Detached and Multi-Family Attached (≥ 20 DU per acre) [f]	130	DU	6 /DU	780	8%	20%	80%	12	50	62	9%	70%	30%	49	21	70
–	Single-Family Detached (≤ 20 DU per acre) [g]	250	DU	8 /DU	2,000	8%	20%	80%	32	128	160	10%	70%	30%	140	60	200
–	Single-Family Detached (≤ 6 DU per acre) [h]	309	DU	10 /DU	3,090	8%	30%	70%	74	173	247	10%	70%	30%	216	93	309
A	**RESIDENTIAL TRIP GENERATION**	**689**	**DU**	—	**5,870**	—	—	—	**118**	**351**	**469**	—	—	—	**405**	**174**	**579**
–	**NON-RESIDENTIAL COMPONENT**																
B	Commercial (C + D)	25	KSF	40 /KSF	1,000	3%	60%	40%	18	12	30	9%	50%	50%	45	45	90
C	Primary External Trips [d]	90%		—	900	—	—	—	18	12	30	9%	50%	50%	40	40	80
D	*Pass-by External Trips [d]*	*10%*		—	*100*	—	—	—	—	—	—	*9%*	*50%*	*50%*	*5*	*5*	*10*
E	Restaurant [b] (F + G)	5	KSF	100 /KSF	500	1%	60%	40%	3	2	5	8%	70%	30%	28	12	40
F	Primary External Trips [d]	90%		—	450	—	—	—	3	2	5	8%	70%	30%	25	11	36
G	*Pass-by External Trips [d]*	*10%*		—	*50*	—	—	—	—	—	—	*8%*	*70%*	*30%*	*3*	*1*	*4*
H	Farm [c]	30	acres	2 /acre	60	0.26	43%	57%	7	9	16	0.45	57%	43%	15	12	27
I	Hotel [e]	100	rooms	9 /room	900	8%	40%	60%	29	43	72	9%	60%	40%	49	32	81
J	**Subtotal Primary Trips (Residential + Primary Commercial Trips + Hotel Trips) (A + C + F + H + I)**				**8,180**	—	—	—	**175**	**417**	**592**	—	—	—	**534**	**269**	**803**
K	*Mixed Use Reduction [d] (J x 5%)*	*5%*		—	*(409)*	—	—	—	*(9)*	*(21)*	*(30)*	—	—	—	*(27)*	*(13)*	*(40)*
L	**TOTAL PRIMARY TRIPS (J – K)**				**7,771**	—	—	—	**166**	**396**	**562**	—	—	—	**507**	**256**	**763**
M	**TOTAL DRIVEWAY TRIPS (A + B + E + H + I) – K**				**7,921**	—	—	—	**166**	**396**	**562**	—	—	—	**515**	**262**	**777**

Footnotes:

a. Rates based on SANDAG's *(Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region*, April 2002
b. Restaurant uses "Quality Restaurant" rate from SANDAG.
c. For Farm, SANDAG "agriculture" rate applied. For peak splits, ITE 818 "Nursery (Wholesale)" rate applied.
d. Primary trips, pass-by trips, and mixed-use credit percentages sourced to SANDAG.
e. For Hotel, SANDAG "hotel" rate reduced from 10 ADT/room to 9 ADT/room since the "hotel" rate includes trips generated by convention facilities, which are not proposed by the Project.
f. These units are assigned the "Apartment" trip rate.
g. These units are assigned the "Condominium" trip rate.
~~e~~ h. These units are assigned the "Single Family" trip rate.

7.2 Trip Distribution/Assignment

The distribution of Project traffic was determined using a Select Zone Assignment (SZA) computerized traffic model prepared by SANDAG. The SZA used SANDAG's Series 12 model with the base year (existing) roadway network and land use conditions, and matches trip generating uses (such as residential) with trip-attracting uses (such as retail/commercial), and presents the relative percentage of traffic on the roadway system.

The future connection of Melrose Drive between North River Road and SR-76 and Spur Avenue and S. Santa Fe Avenue, which is included in later model years of the Series 12 traffic model, is in close proximity to the Project site. Under existing and near-term conditions, this connection does not exist. The connection of Melrose Drive between its current terminus, north of SR-76 to North River Road would have a considerable effect on Project trip distribution. This connection would allow a substantial share of Project-related traffic to use Melrose Drive to access SR-76 and the regional street system. In its absence, the majority of Project-related traffic bound for SR-76 will travel via Vandegrift Boulevard and College Boulevard, through locations already subject to congestion during peak hours. Therefore, two separate distributions were prepared focusing on the connection or elimination of the Melrose Drive extensions. The baseline existing and near-term analyses assume the current conditions without the Melrose Drive extensions.

By the Year 2035, the City's Circulation Element Master Transportation Roadway Plan is assumed to be completed. Therefore, the Year 2035 baseline analysis redistributes Project traffic within the study area to account for the future extension of Melrose Drive. Further details on this scenario are provided later on in *Section 11.0* of this report.

The connection of Melrose Drive over the San Luis Rey Bridge is affected by significant environmental constraints and a lack of funding. Therefore, a separate "Year 2035 Without Melrose Drive Extension" analysis is provided later on in *Section 14.0* of this report using the existing and near-term Project distribution without this connection.

Once the traffic distribution was established, the Project-generated traffic was assigned to the adjacent street system.

Figure 7–1 shows the regional and local distribution of Project trips (under existing and near-term conditions, without Melrose Drive extension). ***Figure 7–2*** depicts the proposed Project traffic assignment. ***Figure 7–3*** depicts the Existing + Project traffic volumes.

It should be noted the Project driveway distribution and access traffic volumes are provided later on in *Section 13.0* of this report.

Appendix D contains a copy of the SANDAG Select Zone Assignment traffic model.

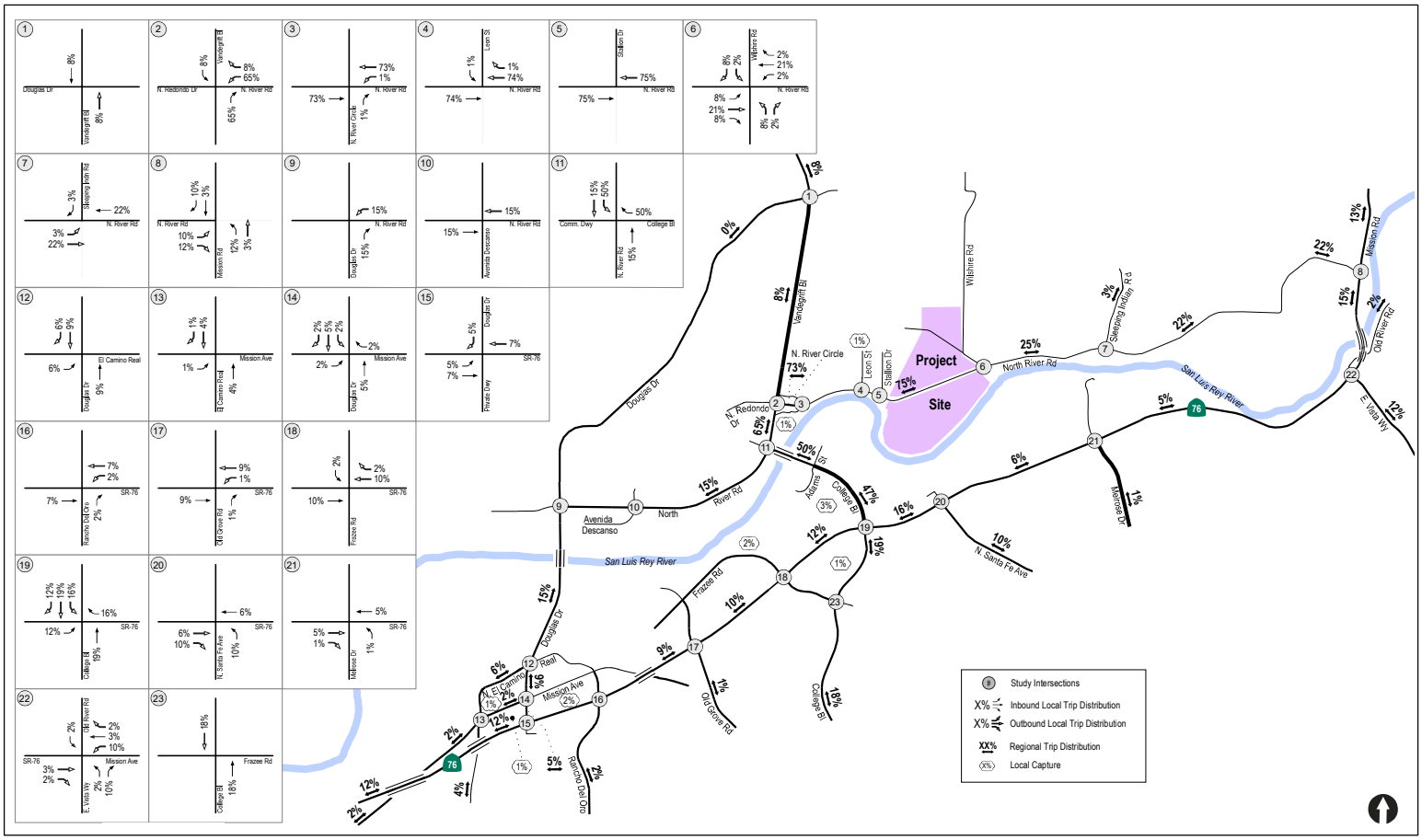


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Figure 7-1

Project Traffic Distribution

North River Farms

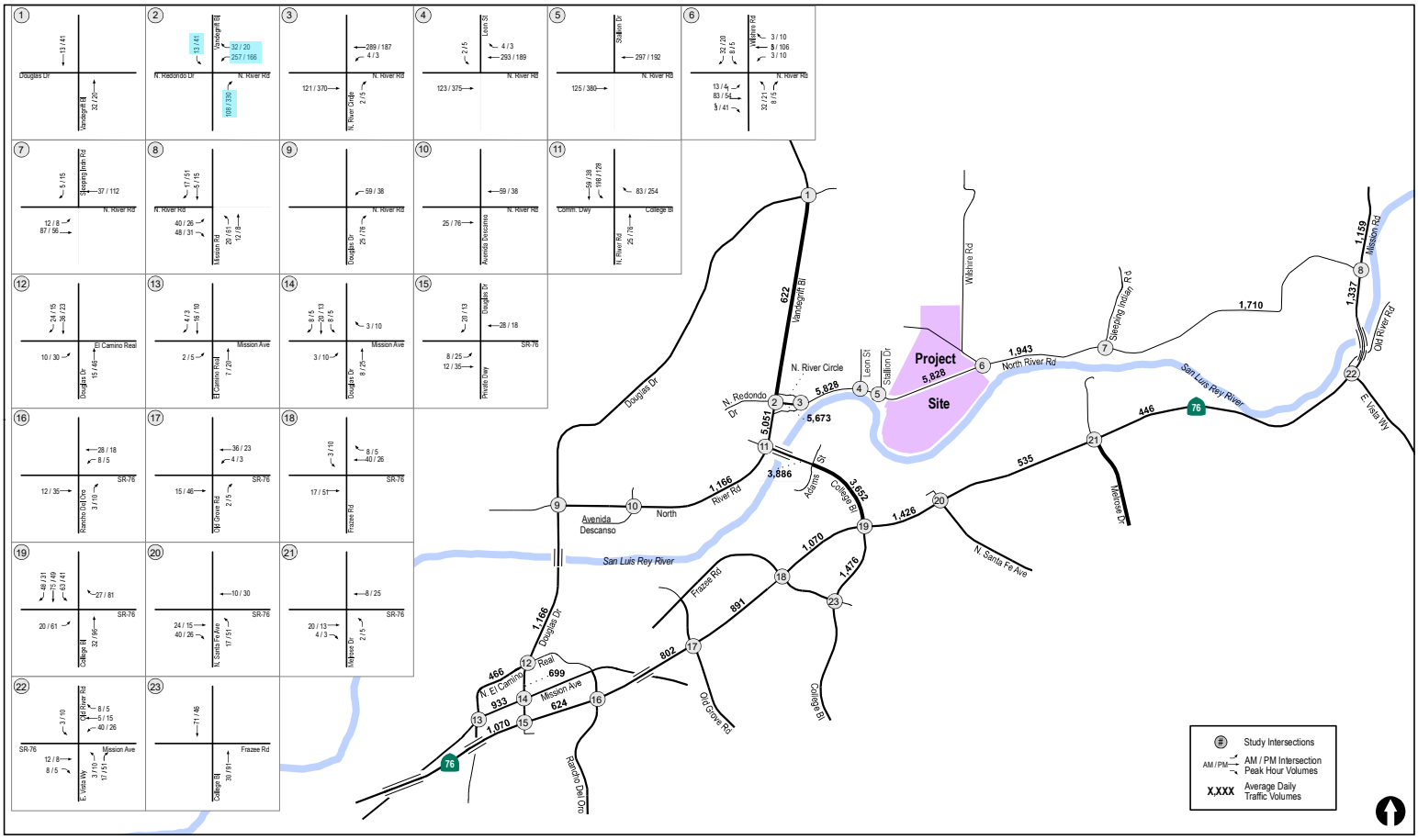

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Figure 7-2

Project Traffic Volumes

North River Farms

TABLE 7–2
WEEKDAY PROJECT TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)		AM Peak Hour					PM Peak Hour				
		Rate [a]	Volume	% of ADT	In:Out Split	Volume			% of ADT	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Hotel (w/ convention facilities / restaurant)	300 Rooms	10 / Room	3,000	6%	60:40	108	72	180	8%	60:40	144	96	240
Multi-Family Residential	700 Units	8 / DU	5,600	8%	20:80	90	358	448	10%	70:30	392	168	560
Retail / Commercial Center	126 KSF	80 / KSF	10,080	4%	60:40	242	161	403	10%	50:50	504	504	1,008
Pass-by Credit (30% PM peak)	-	-	-	-		-	-	-			*-151*	*-151*	*-302*
Surf Lagoon / Resort Pass Guests [b]	1 Site	-	360	-	-	13	13	26	-		13	13	26
Proposed Project Weekday Total			**19,040**			**453**	**604**	**1,057**			**902**	**630**	**1,532**
Proposed Project Weekday Total (Driveway Trips) [c]			**19,040**			**453**	**604**	**1,057**			**1,053**	**781**	**1,834**

Footnotes:

a. Rates based on SANDAG's (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002 except where noted.

b. 120 Surf Lagoon guests and 50 Report Pass guests expected daily. See *Appendix E* for Trip Generation Calculations.

c. Driveway trip calculations do not include pass-by credits.

General Notes:

1. ADT = Average daily traffic

TABLE 7–3
WEEKEND PROJECT TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)		Peak Hour				
		Rate [a]	Volume	% of ADT	In:Out Split	Volume		
						In	Out	Total
Hotel (w/ convention facilities / restaurant)	300 Rooms	8.19 / Room	2,457	0.72	56:44	121	95	216
Multi-Family Residential	700 Units	8.14 / DU	5,698	0.70	50:50	245	245	490
Retail / Commercial Center	126 KSF	46.12 / KSF	5,811	4.50	52:48	295	272	567
Surf Lagoon / Resort Pass Guests [b]	1 Site	-	460	-	-	23	23	46
Proposed Project Weekend Total			**14,426**			**684**	**635**	**1,319**

Footnotes:

a. Rates based on the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, September 2017 except where noted.

b. 120 Surf Lagoon guests and 100 Report Pass guests expected daily. See *Appendix E* for Trip Generation Calculations.

General Notes:

1. ADT = Average daily traffic

7.3 Trip Distribution/Assignment

The distribution of Project traffic was determined based on information in the previously approved TIA for the Pavilion at Oceanside project as well as the locations of the proposed access points, traffic patterns observed from the existing traffic counts, and the proximity of the project to surrounding freeways, attractions, and residential and commercial areas. The trip distribution was developed in consultation with City staff.

Figures 7–1a and ***7-1b*** show the distribution of Project trips to the study street segments and intersections, respectively.

Once the traffic distribution was established, the Project-generated traffic was assigned to the adjacent street system. It should be noted that the Project's Weekday and Weekend distribution was assumed to be the same.

Figures 7–2a and ***7-2b*** depict the Weekday Project daily traffic volumes and AM / PM peak hour traffic volumes, respectively.

Figure 7–3 depicts the Weekend Project daily traffic and peak hour traffic volumes.

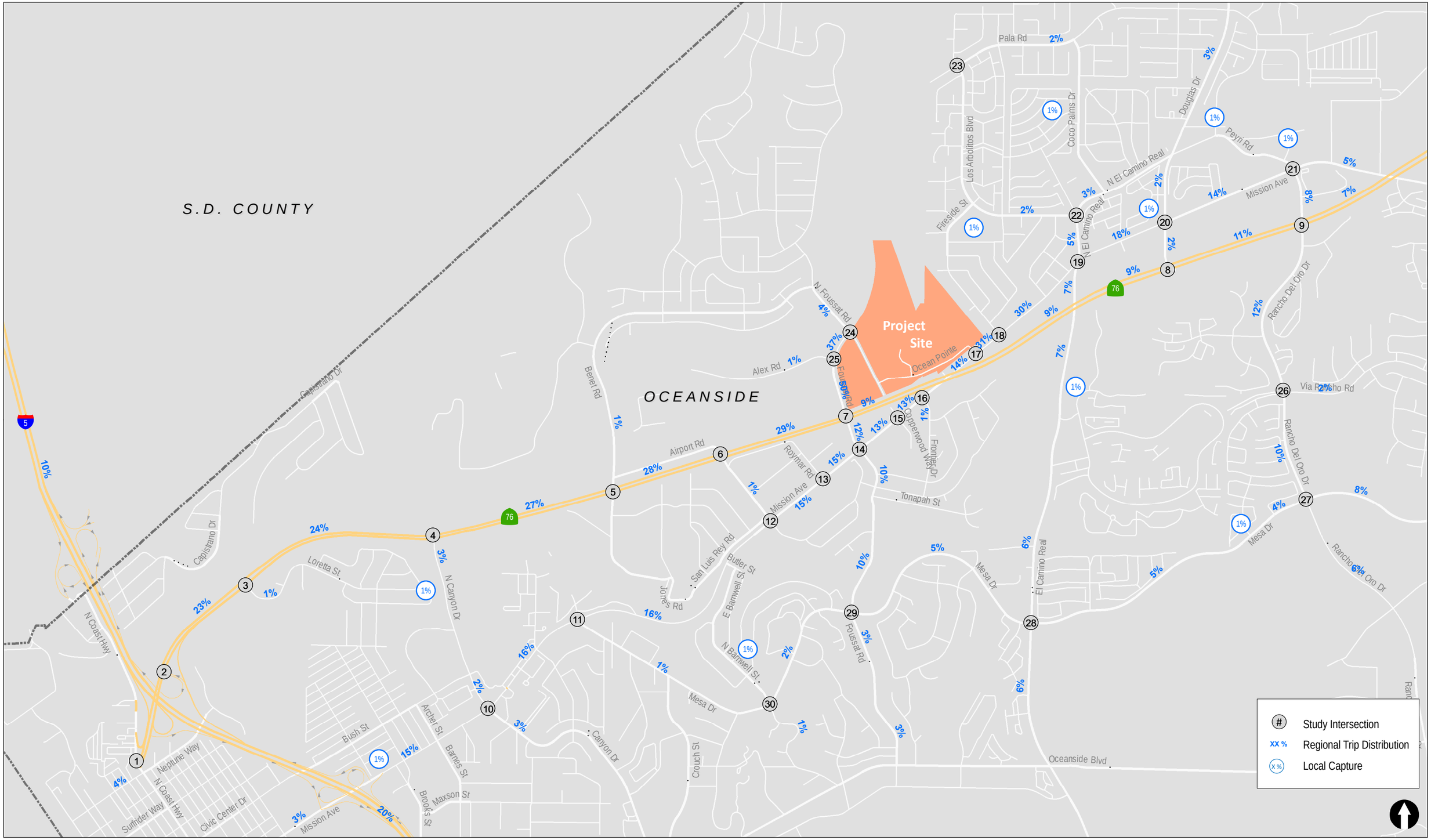

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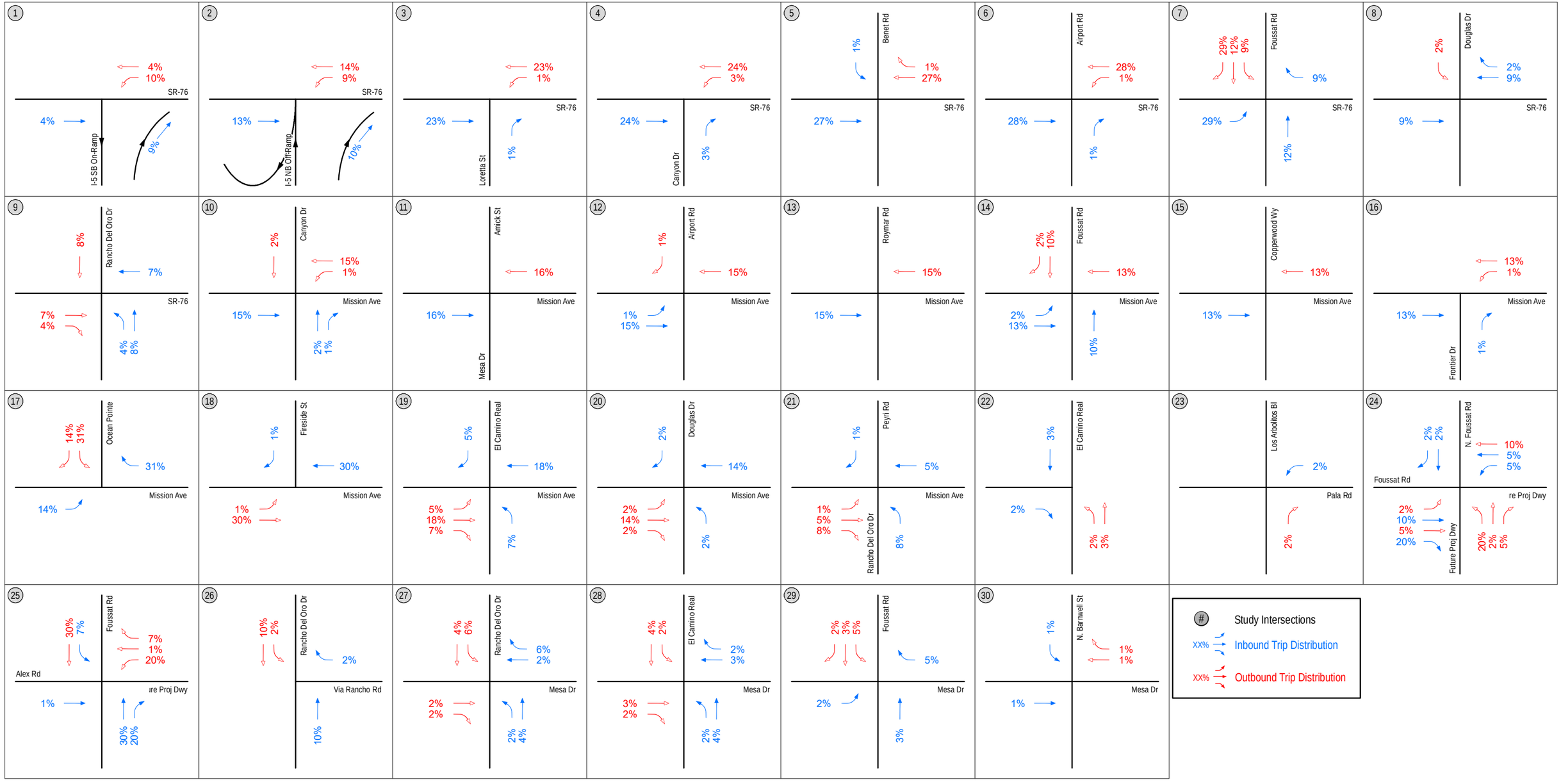
Figure 7-1

Project Traffic Distribution

(Page 1 of 2)

OCEAN KAMP



LINSCOTT LAW & GREENSPAN engineers

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Figure 7-1
Project Traffic Distribution
(Page 2 of 2)
OCEAN KAMP

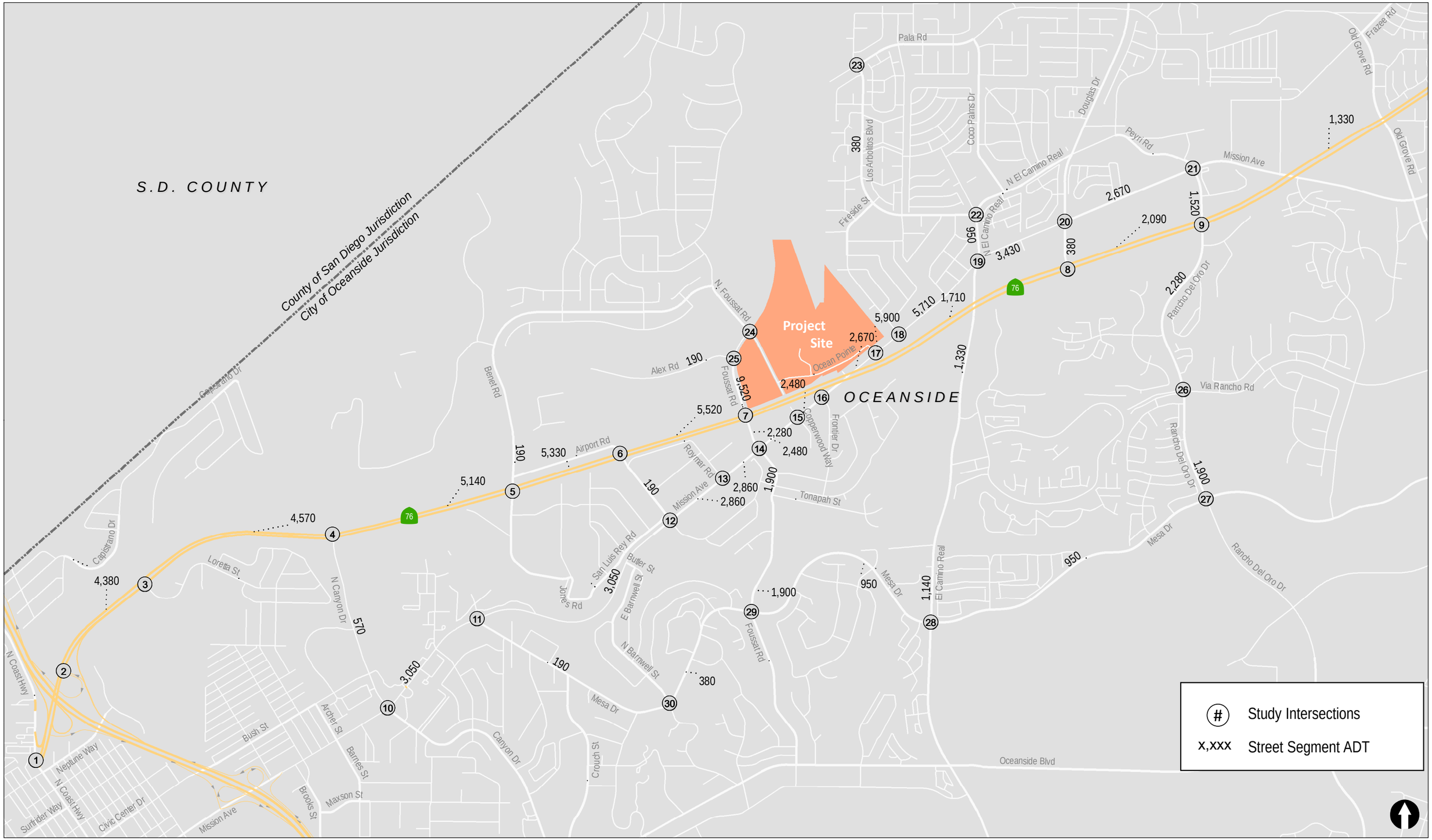

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Figure 7-2a

Weekday Project Traffic Volumes

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OCEAN KAMP

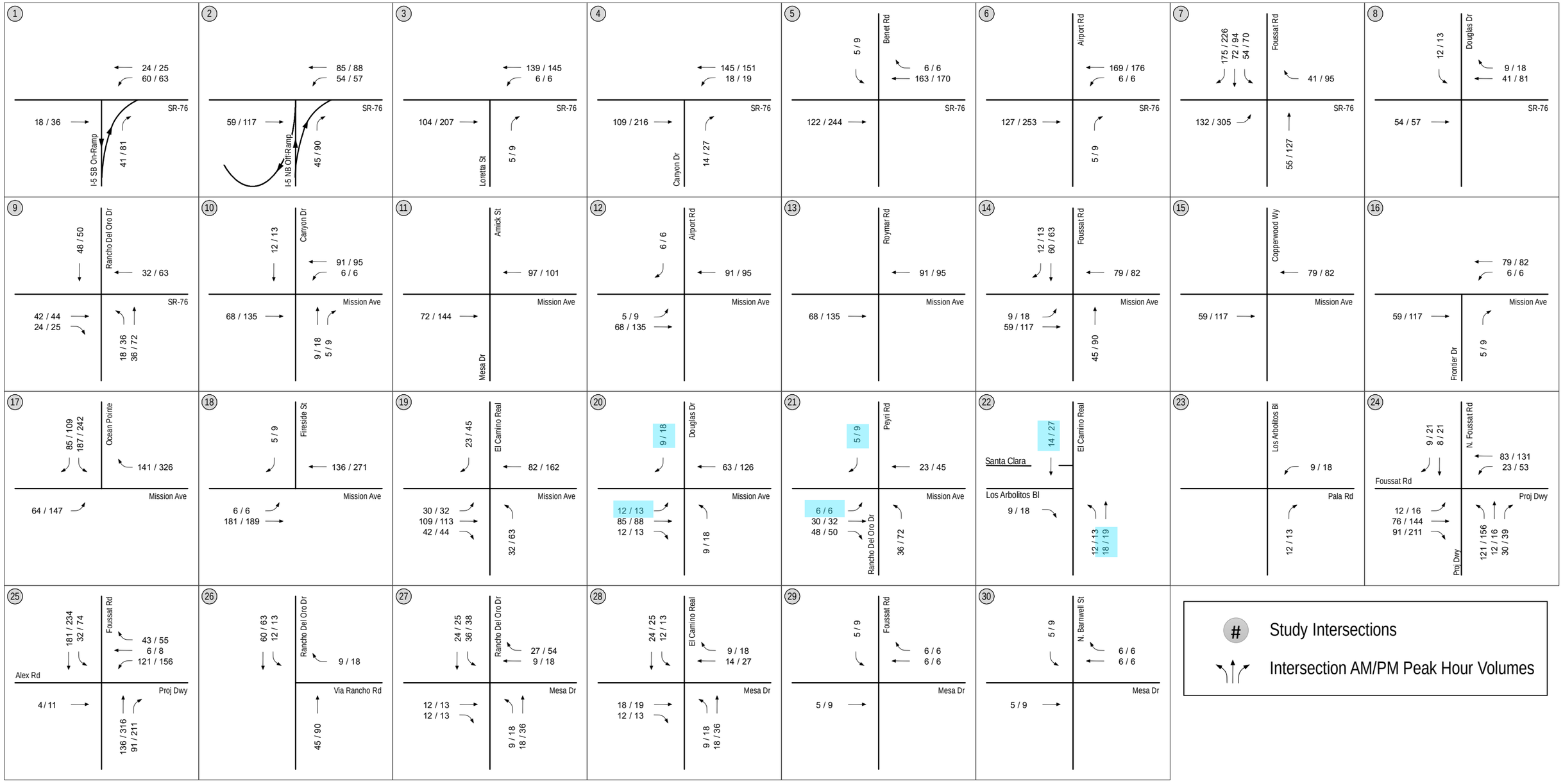

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Figure 7-2b

Weekday Project Traffic Volumes

(Page 2 of 2)

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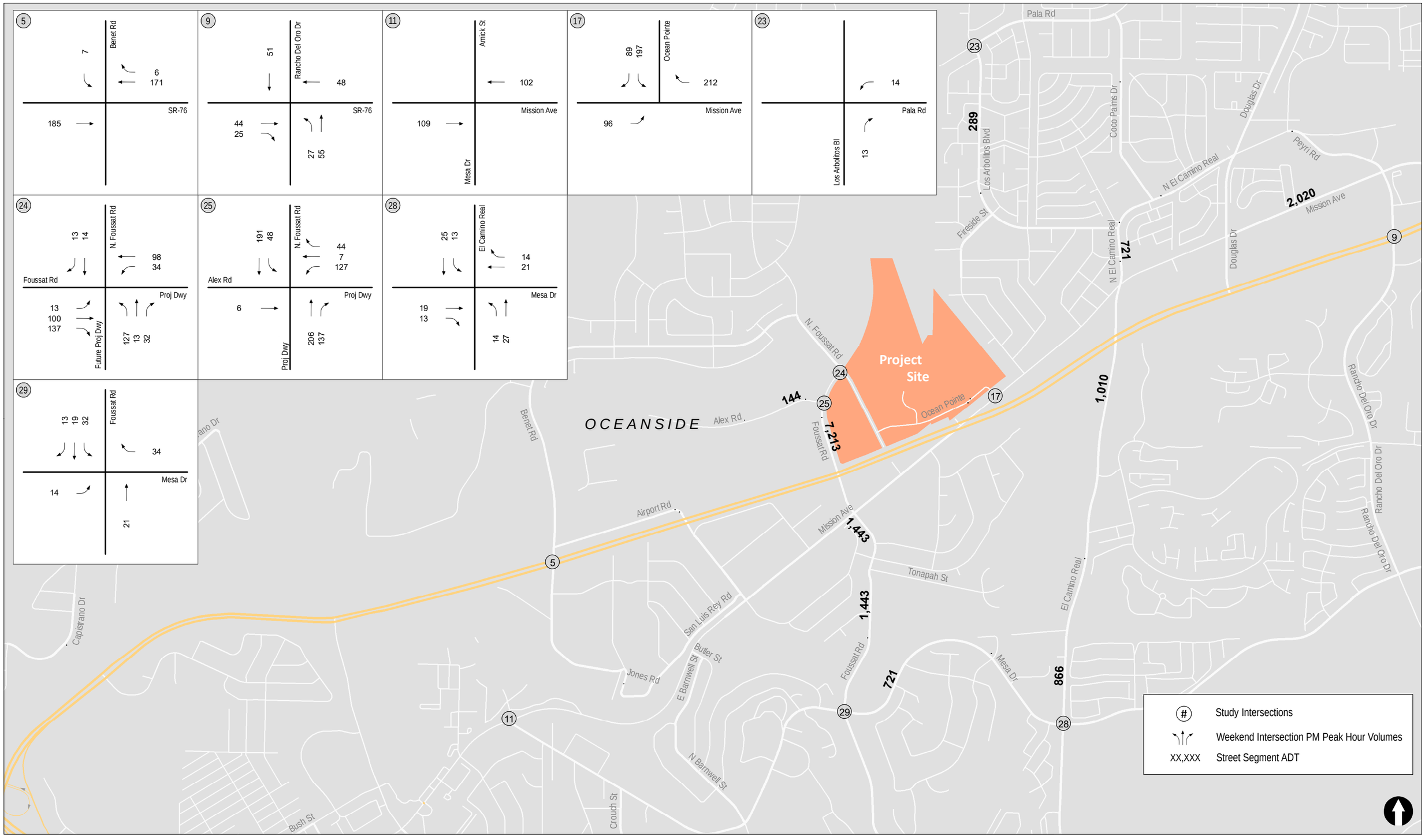

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Figure 7-3

Weekend Project Traffic Volumes

Saturday

OCEAN KAMP

7.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

7.1 Trip Generation

Trip generation rates were obtained from the (Not So) *Brief guide of Vehicular Traffic Generation Rates for the San Diego Region* (April 2002) by SANDAG. The "Residential, Apartment" (6 ADT / DU)" were used for the apartments, and the "Strip Commercial" (40 ADT /KSF)" trip rates were used for the local serving retail to estimate the Project trip generation.

Table 7–1 summarizes the trip generation for the Project. As shown in *Table 7–1*, the Project is calculated to generate 2,038 daily trips with 159 trips during the AM peak hour (33 inbound/ 126 outbound trips) and 183 trips during PM peak hour (127 inbound/ 56 outbound trips).

7.2 Trip Distribution and Assignment

Project traffic was distributed to the street system based on existing traffic patterns in the area, the Project's proximity to freeways and arterials, locations of retail, places of employment, schools, and other shopping opportunities in the study area.

24% of the Project trips were assigned to the west on Oceanside Boulevard, 26% to the north on N. Melrose Drive, 28% to the south on N. Melrose Drove and 20% to the east on W. Bobier Drive. The remaining 2% of the Project trips were assigned on Sports Park Way, north of the site.

Figure 7–1 shows the Project trip distribution. ***Figure 7–2*** shows the Project traffic volumes. ***Figure 7-3*** shows the Existing + Project traffic volumes.

TABLE 7–1
PROJECT TRIP GENERATION

Use	Quantity	Daily Trip Ends (ADT)[a]		AM Peak Hour					PM Peak Hour				
		Rate [b]	Volume	% of ADT	In:Out Split	Volume			% of ADT	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Apartments	324 DU	6/ DU[c]	1,944	8%	2:8	31	125	156	9%	7:3	123	52	175
Retail [c]	2,338 SF	40/ KSF[d]	94	3%	6:4	2	1	3	9%	5:5	4	4	8
Total			**2,038**			**33**	**126**	**159**			**127**	**56**	**183**

Footnotes:

a Average Daily Trips

b Trip Generation Rate from the SANDAG's *Not So Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region,* 2002.

c Trip rates for Apartments used.

d Trip rates for Strip Commercial used.

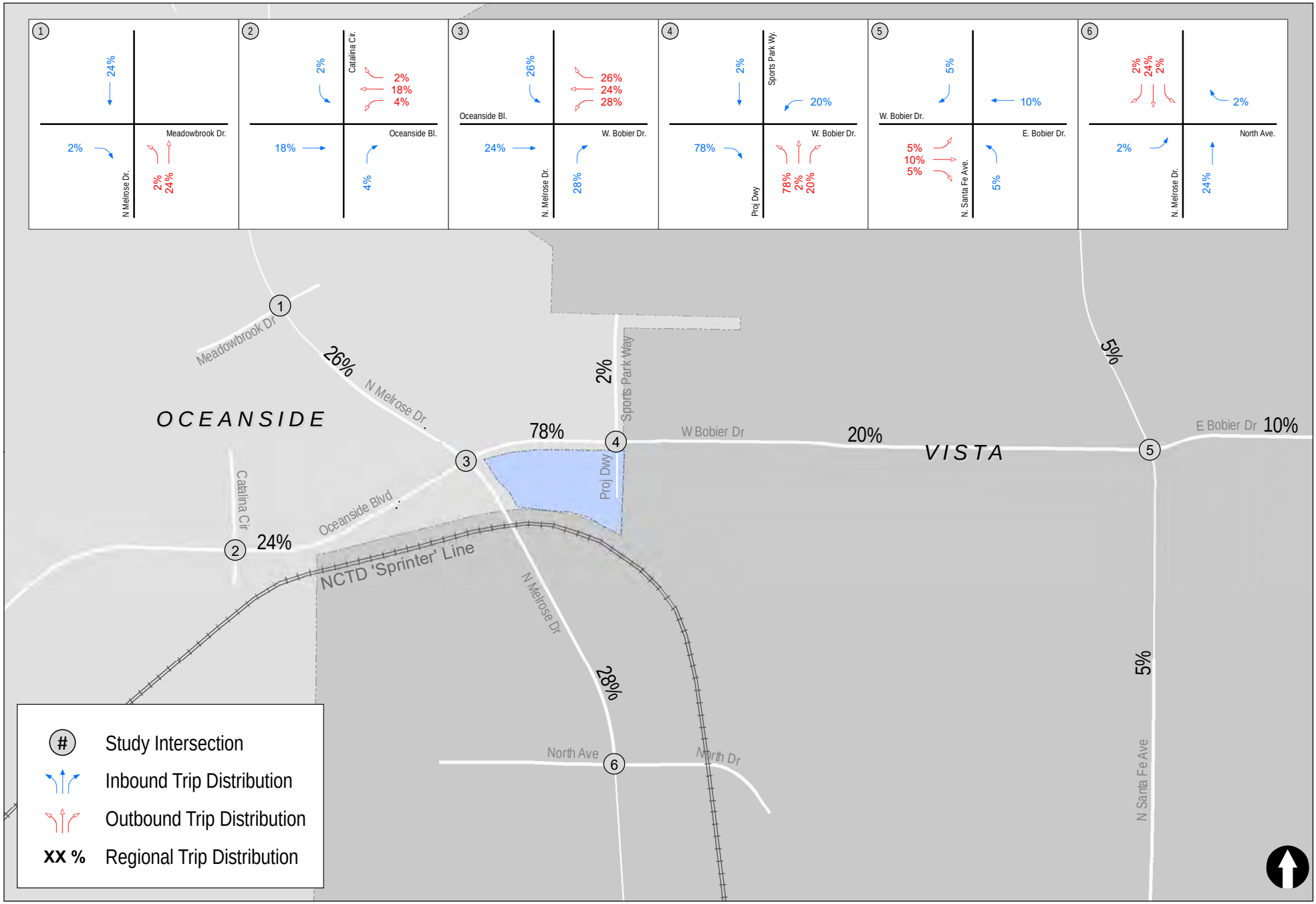

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Figure 7-1

Project Traffic Distribution

Modera Melrose

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Figure 7-2

Project Traffic Volumes

Modera Melrose

7.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

The weekday project trip generation was estimated using the Traffic Generation Rates for the San Diego Region, April 2002, published by SANDAG. The proposed Project includes the development of 50 single family residential units and 54 attached town homes. Trip rates corresponding to single family units and multi-family units were used to estimate the trips generated by the Project.

7.1 Trip Generation

Table 7–1 tabulates the total project traffic generation. The total project is calculated to generate 932 ADT with 75 AM peak hour trips (19 inbound / 56 outbound) and 93 PM peak hour trips (65 inbound / 28 outbound).

7.2 Trip Distribution/Assignment

Project trip distribution was developed based on current travel patterns at the study are intersections based on the existing traffic counts and on the locations of employment centers, schools and retail opportunities. Based on the trip distribution percentages, the Project traffic was assigned to the study area intersections and segments.

Figure 7–1 depicts the Project trip distribution. ***Figure 7–2*** depicts the Project trip Assignment during the AM and PM peak hours. ***Figure 7–3*** depicts the Existing + Project traffic volumes during the AM and PM peak hours.

TABLE 7-1
TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)		AM Peak Hour					PM Peak Hour				
		Rate [a]	Volume	% of ADT [a]	In : Out Split	Volume			% of ADT	In : Out Split	Volume		
						In	Out	Total			In	Out	Total
Detached Single Family Homes	50 DU	10 /DU	500	8%	30:70	12	28	40	10%	70:30	35	15	50
Attached Town Homes	54 DU	8/ DU	432	8%	20:80	7	28	35	10%	70:30	30	13	43
Total	**104 DU**	**-**	**932**	**-**	**-**	**19**	**56**	**75**	**-**	**-**	**65**	**28**	**93**

Footnotes:
a. Rates are based on SANDAG's *(Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region*, April 2002.

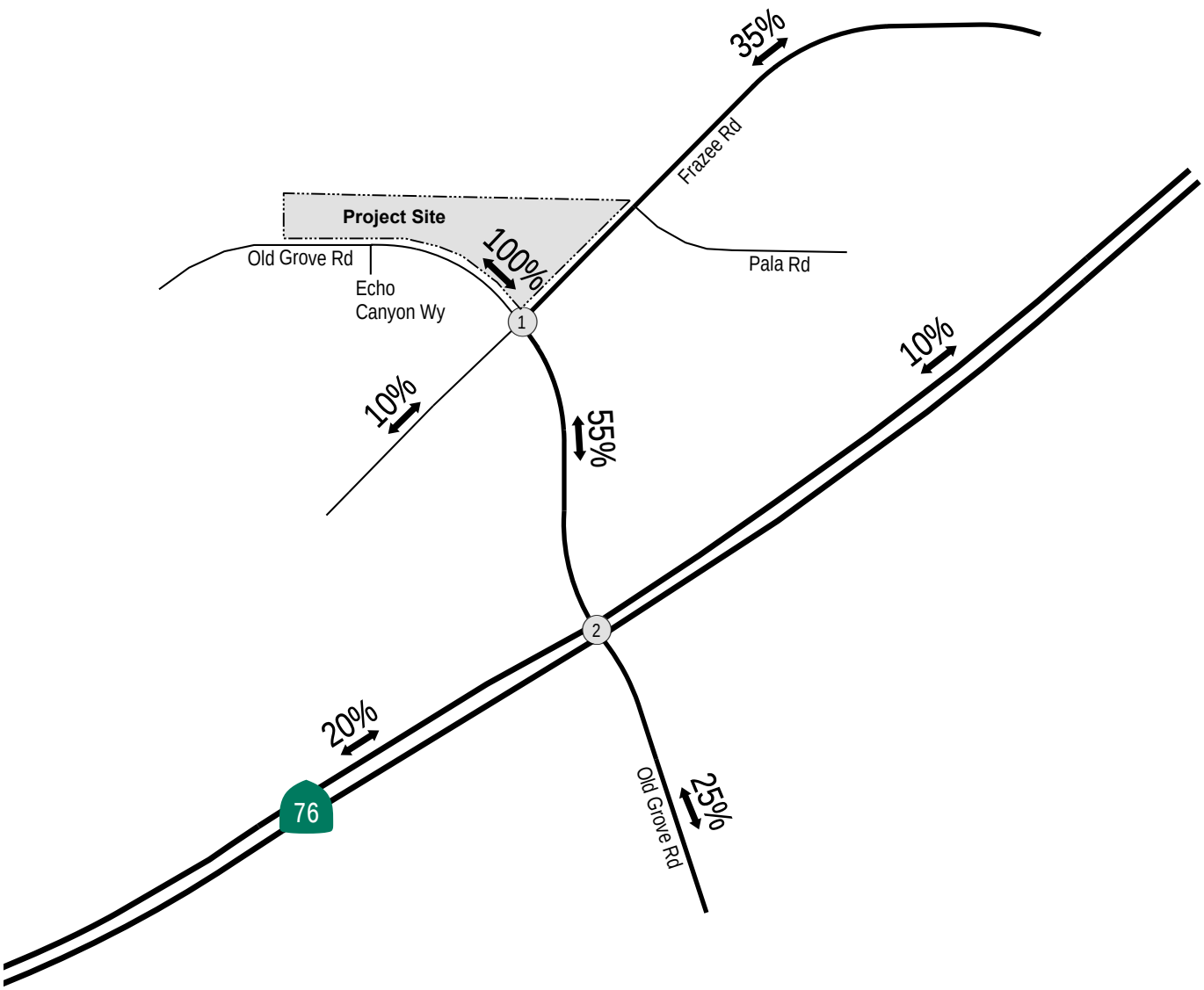

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Figure 7-1

Project Traffic Distribution

OCEANSIDE RIO ROCKWELL PROJECT

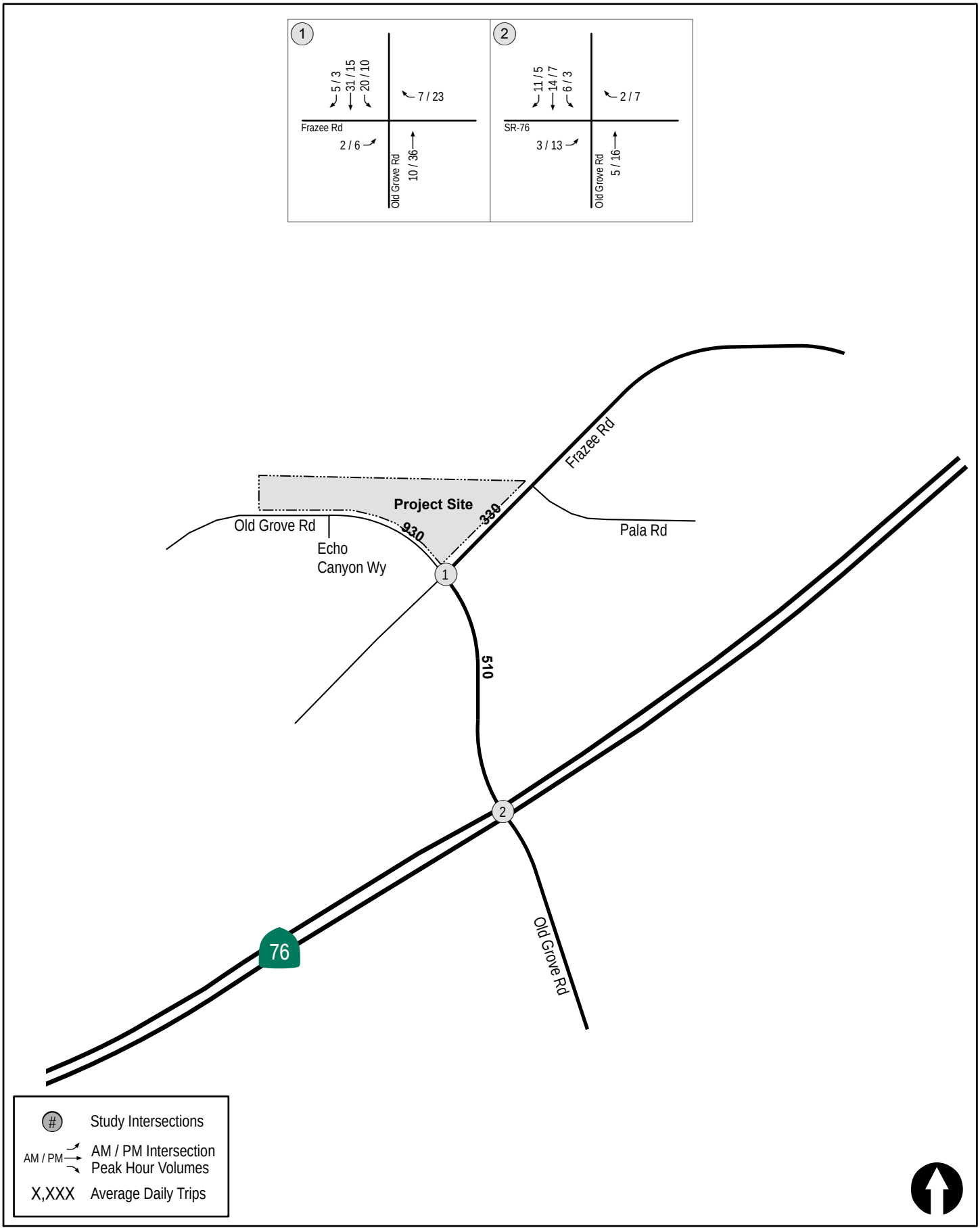

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Figure 7-2

Project Traffic Volumes

(AM/PM Commuter hours)

OCEANSIDE RIO ROCKWELL PROJECT

8.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

8.1 Trip Generation

Trip generation rates were obtained from the (Not So) *Brief guide of Vehicular Traffic Generation Rates for the San Diego Region* (April 2002) by SANDAG. The "Residential, Single Family Detached (average 3-6 DU/acre)" trip rate was used to estimate the Project trip generation.

Table 8–1 summarizes the trip generation for the Project. As shown in *Table 8–1*, the Project is calculated to generate 540 daily trips with 42 trips during the AM peak hour (13 inbound/ 29 outbound trips) and 53 trips during PM peak hour (37 inbound/ 16 outbound trips).

TABLE 8–1
PROJECT TRIP GENERATION

Use	Quantity	Daily Trip Ends (ADT)[a]		AM Peak Hour				PM Peak Hour			
		Rate [b]	Volume	% of ADT	In:Out Split	Volume		% of ADT	In:Out Split	Volume	
						In	Out			In	Out
Residential – Single Family Detached	54 DU	10/DU	540	8%	30:70	13	29	10%	70:30	37	16

Footnotes:

b. Average Daily Trips

c. Trip Generation Rate from the SANDAG's *Not So Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region,* 2002.

8.2 Trip Distribution and Assignment

Project traffic was distributed to the street system based on existing traffic patterns in the area, the Project's proximity to freeways and arterials, locations of retail, places of employment, schools, and other shopping opportunities. 100% of the Project trips were assigned to western leg of the Los Arbolitos Boulevard / Pala Road intersection, which will form the Project's only day-to-day access point.

Figure 8–1 shows the distribution of the Project trips. ***Figure 8–2*** shows the Project traffic volumes. ***Figure 8-3*** shows the Existing + Project traffic volumes.

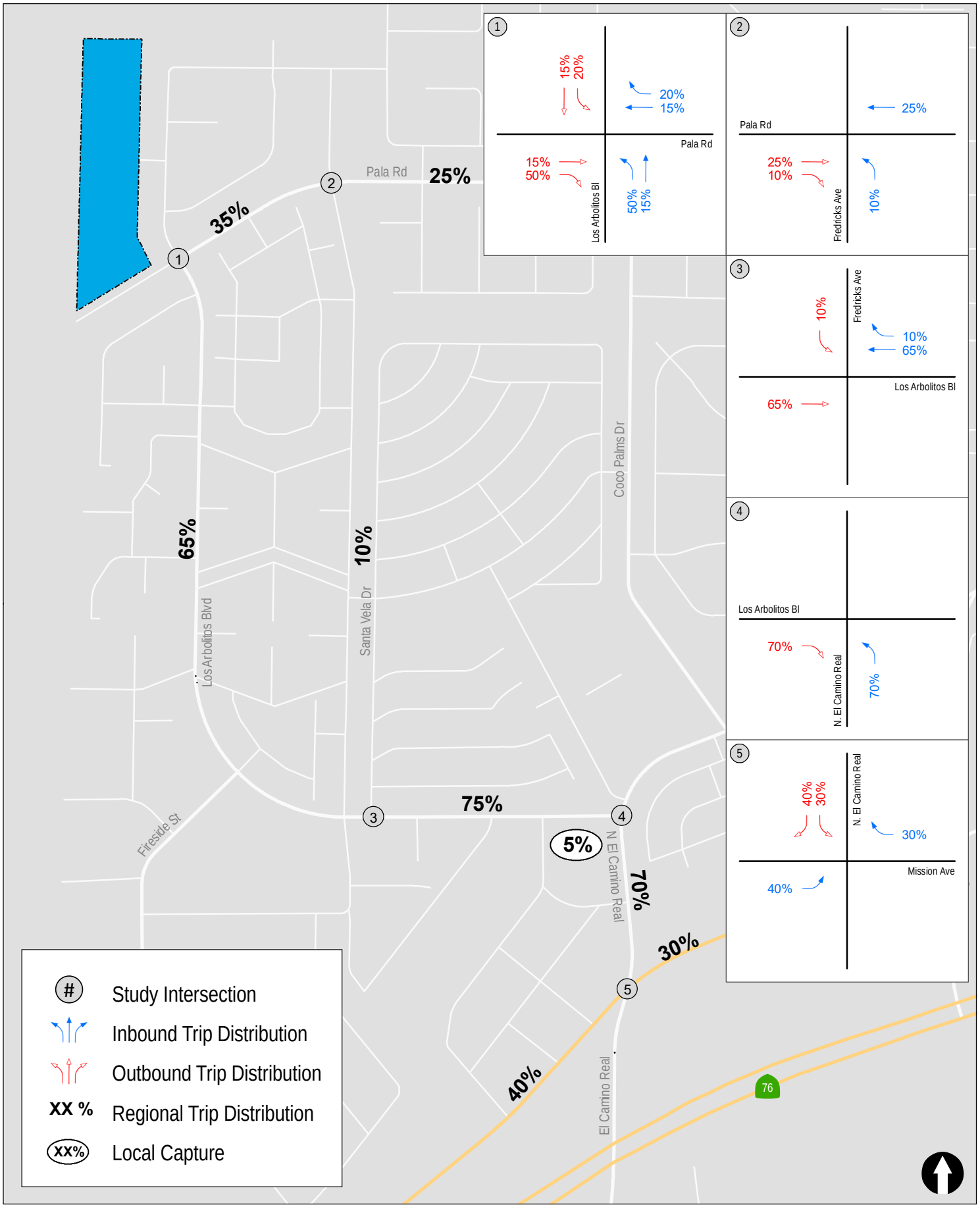

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Figure 8-1

Project Traffic Distribution

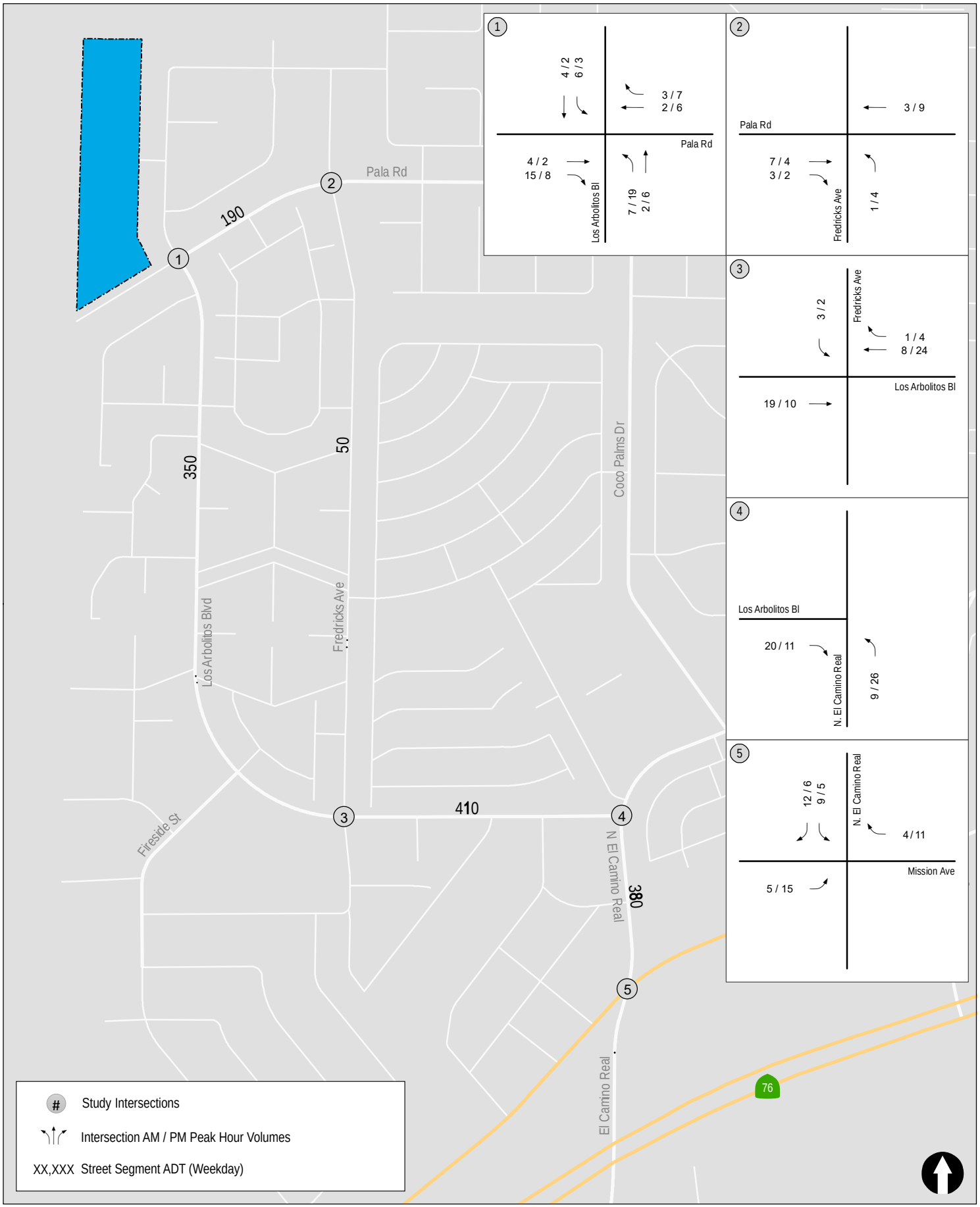

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Figure 8-2

Project Traffic Volumes

3.4 Project Traffic Generation

The proposed residential single family home subdivision with 83 lots is located at 2839 Guajome Lake Road in Oceanside, California. The project site of approximately 16.79 acres has one existing single family home.

The project traffic generation was calculated using SANDAG trip rates from the *Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region*, April 2002. Copies of SANDAG rates are included in **Appendix F**. Using SANDAG traffic generation rates, the project is calculated to generate 830 ADT, 66 AM peak hour trips (20 inbound and 46 outbound), and 83 PM peak hour trips (58 inbound and 25 outbound) as shown in **Table 8**.

TABLE 8: PROJECT TRAFFIC GENERATION

Proposed							AM				PM	
Land Use	Rate	Size & Units	ADT	%	Split		IN	OUT	%	Split	IN	OUT
Residential - Single Family	10 /DU	83 DU	**830**	8%	0.3	0.7	**20**	**46**	10%	0.7 0.3	**58**	**25**

Source: SANDAG *Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region,* April 2002.

DU-Dwelling Unit; ADT-Average Daily Traffic; Split-percent inbound and outbound.

3.4.1 Project Access

The project will have two driveways that will connect with Guajome Lake Rd.

3.4.2 Project Distribution and Assignment

Project trips were distributed to the adjacent roadway network using traffic engineering judgement and factors such as proximity to SR-76, local productions, and attractions. The project distribution is shown in **Figure 9** while the project assignment is shown in **Figure 10.**

Figure 9: Project Distribution

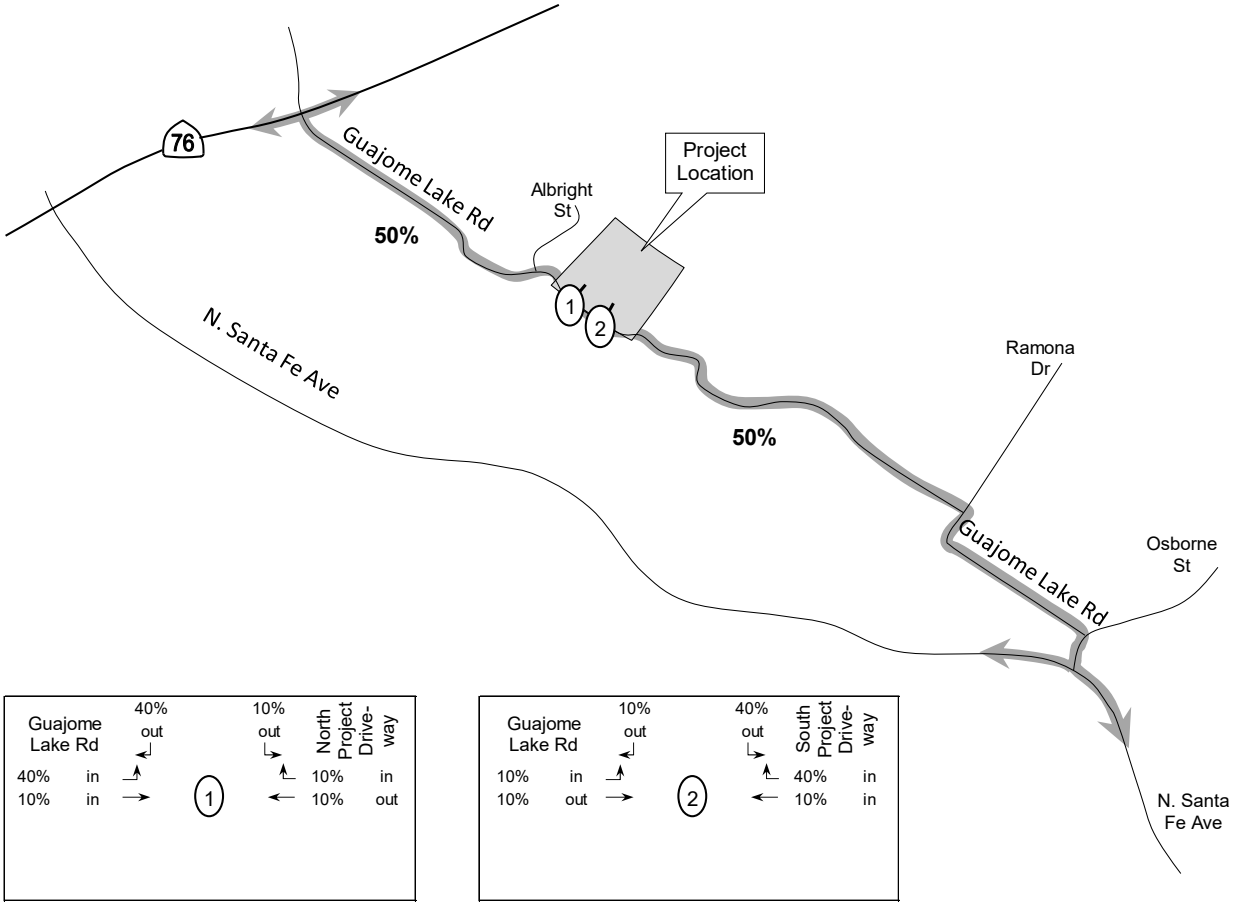
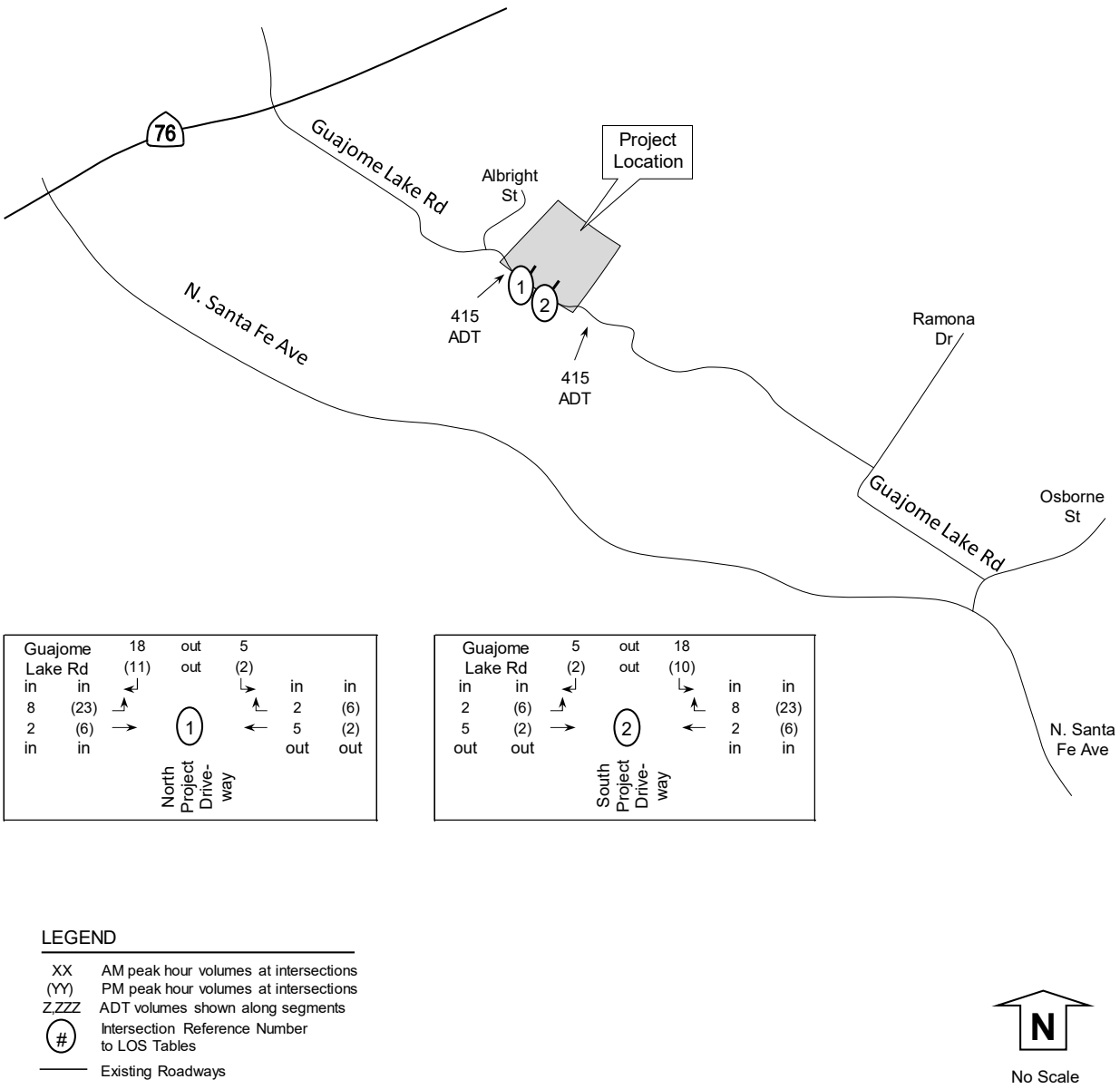


Figure 10: Project Volumes



LEGEND

XX	AM peak hour volumes at intersections
(YY)	PM peak hour volumes at intersections
Z,ZZZ	ADT volumes shown along segments
(#)	Intersection Reference Number to LOS Tables
——	Existing Roadways

N

No Scale

8.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

The following is a discussion of the Project trip generation calculations and the Project traffic distribution and assignment through the local street system.

8.1 Trip Generation

The Project traffic generation calculations were conducted using the trip generation rates published in the Institute of Transportation Engineers *Trip Generation Manual*, 10th edition for the "assisted living" land use (Land Use Code 254). The typical trip generation rates used in the City of Oceanside are the regional SANDAG "Brief Guide" rates (2002). However, these rates do not include a land use similar to the proposed assisted living.

Table 8–1 tabulates the total Project traffic generation. The total Project is calculated to generate approximately 247 ADT with 11 inbound / 7 outbound trips during the AM peak hour and 10 inbound / 15 outbound trips during the PM peak hour.

TABLE 8–1
PROJECT TRIP GENERATION

Land Use	Size	Daily Trip Ends (ADTs)[b]		AM Peak Hour					PM Peak Hour				
		Rate [a]	Volume	% of ADT	In:Out Split	Volume			% of ADT	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Assisted Living	95 DU	2.6 / Bed	247	0.19	63:37	11	7	18	0.26	38:62	10	15	25

Footnotes:

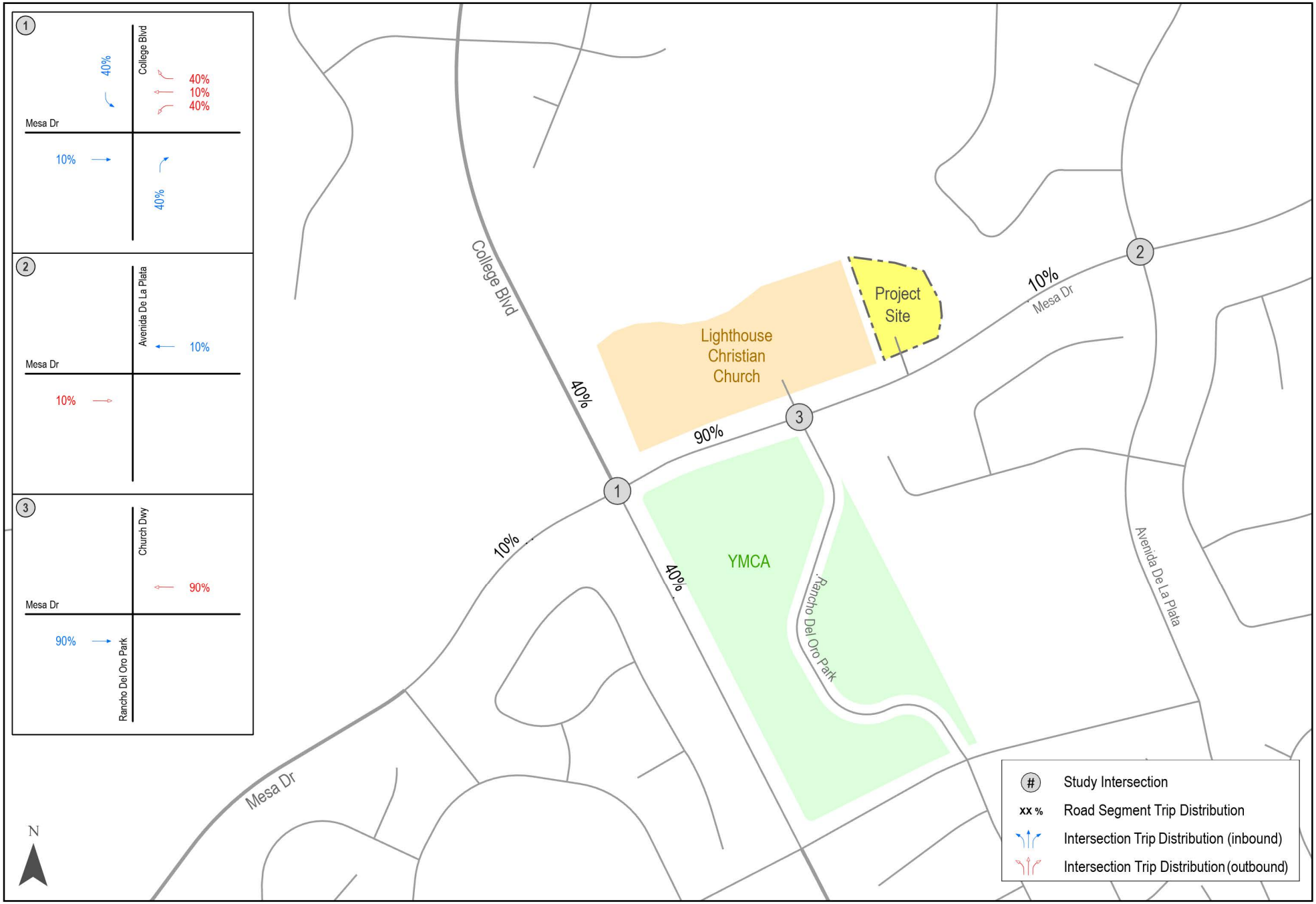
a. Rates based on the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, September 2017, Land Use 254.

b. ADT = Average daily traffic

8.2 Trip Distribution/Assignment

Project trip distribution was developed using professional engineering judgment based on the available local and regional access as well as existing traffic patterns and flows observed from existing traffic count data at study area intersections.

Figure 8–1 depicts the Project trip distribution percentages. ***Figure 8–2*** shows the assigned Project traffic volumes and ***Figure 8–3*** shows the Existing + Project traffic volumes. ***Figure 8–4*** shows Existing + Cumulative Projects + Project traffic volumes.



LINSCOTT LAW & GREENSPAN engineers

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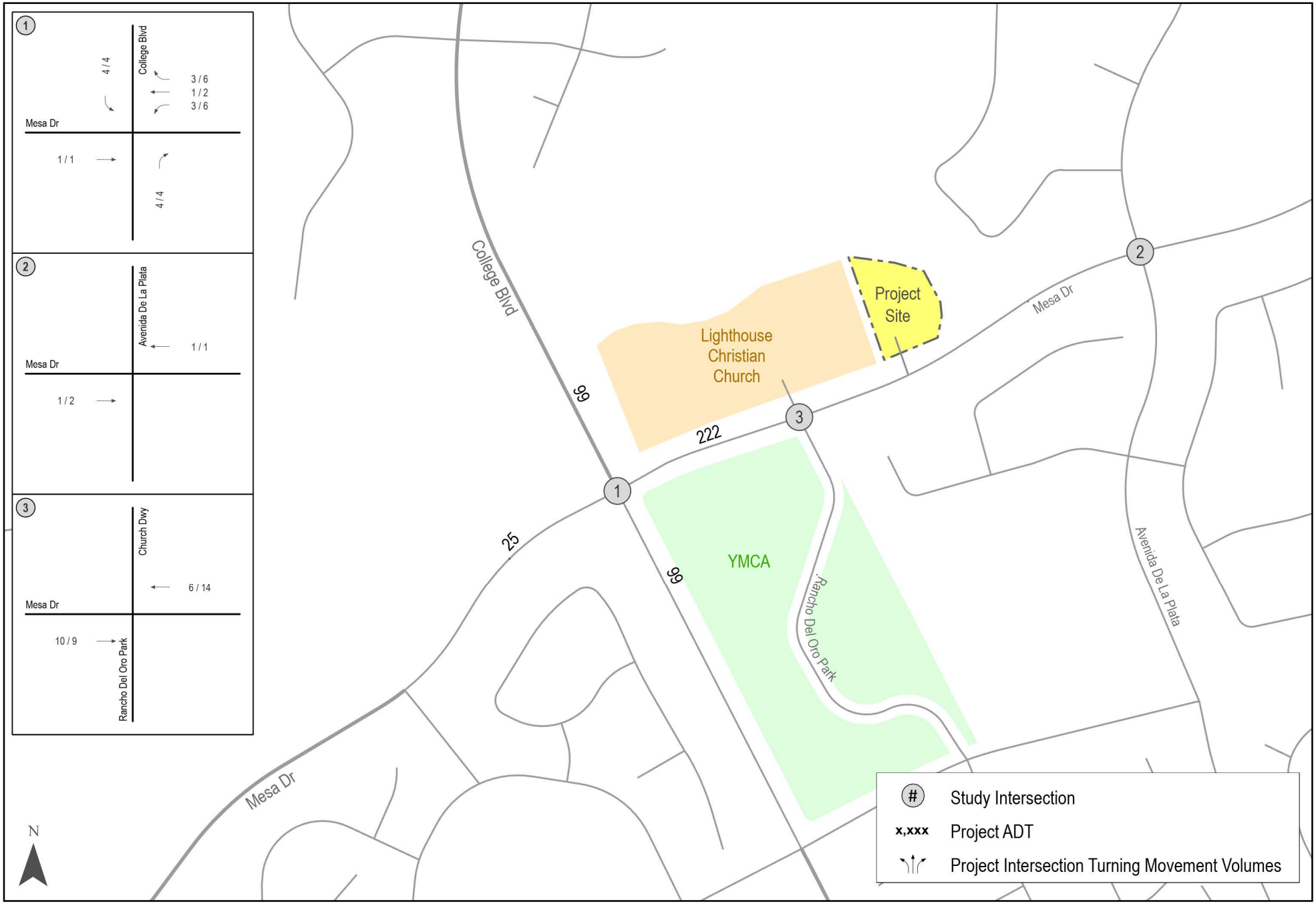
Date: 2/6/2020
Time: 1:32 PM

Figure 8-1
Project Traffic Distribution

SUNRISE OF OCEANSIDE



LINSCOTT LAW & GREENSPAN engineers

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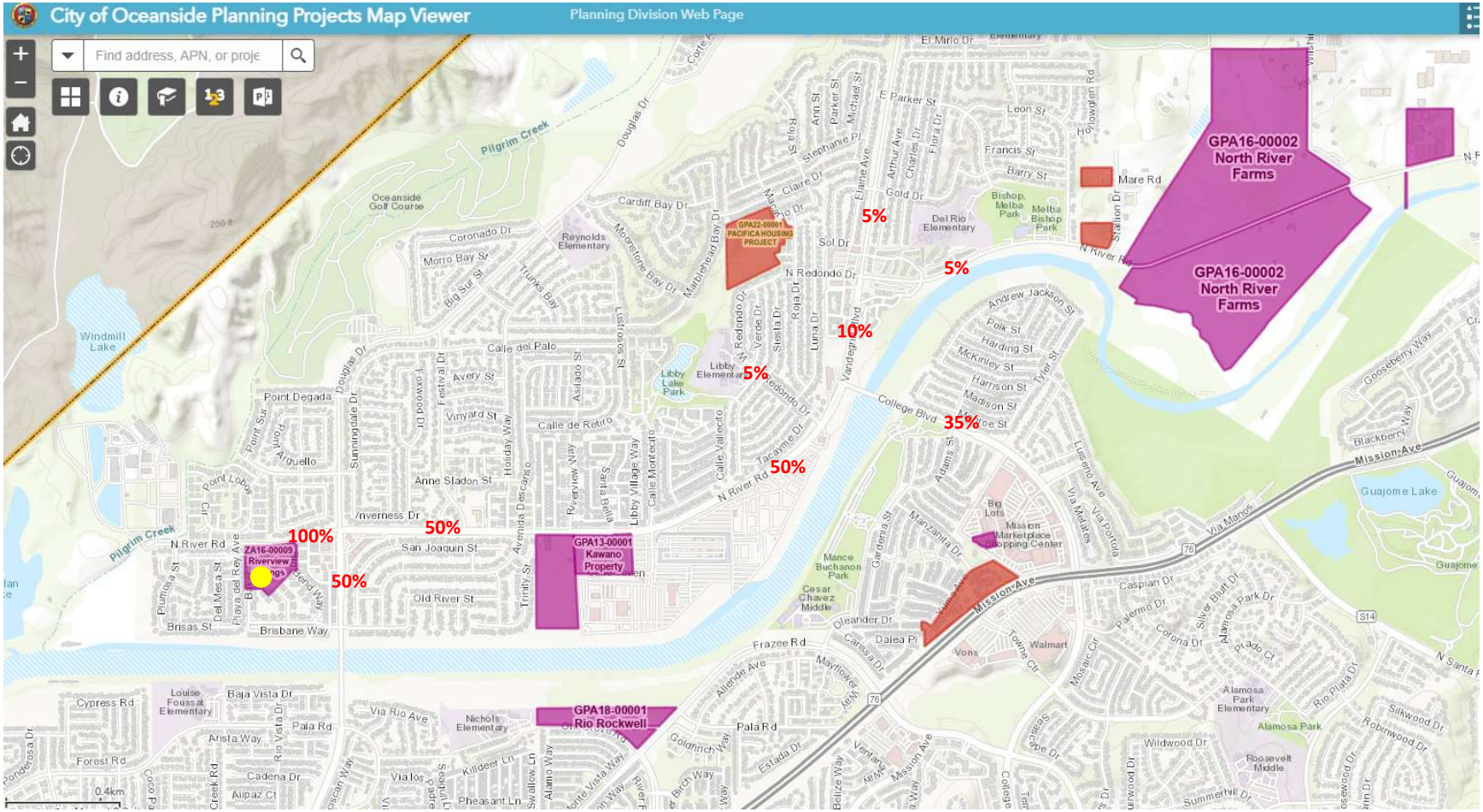
Date: 2/6/2020
Time: 1:32 PM

Figure 8-2
Project Traffic Volumes

SUNRISE OF OCEANSIDE

- Trip Distribution Assumptions – Riverview Springs (addition of 47 DU to existing development) – Distribution based on assumptions for recently submitted adjacent cumulative project in Terra North Residential Development Plan (Nagata property).


City of Oceanside Planning Projects Map Viewer
Planning Division Web Page
Find address, APN, or proje
GPA16-00002
North River
Farms
GPA16-00002
North River
Farms
5%
5%
10%
5%
35%
50%
100%
50%
50%
GPA13-00001
Kawano
Property
GPA18-00001
Rio Rockwell
GPA22-00001
PACIFICA HOUSING
PROJECT
ZA16-00009
Riverview
Springs
Pilgrim Creek
Windmill
Lake
Oceanside
Golf Course
Reynolds
Elementary
Del Rio
Elementary
Libby
Elementary
Libby
Lake
Park
Bishop
Melba
Park
Melba
Bishop
Park
Nichols
Elementary
Louise
Foussat
Elementary
Alamosa
Park
Elementary
Cesar
Chavez
Middle
Mance
Buchanan
Park
Mission
Marketplace
Shopping Center
Big
Lots
Vons
Walmart
Towne Ctr
Guajome Lake
Alamosa Park
Roosevelt
Middle
Point Degada
Anne Sladon St
Inverness Dr
San Joaquin St
Old River St
Brisbane Way
Brisas St
N River Rd
Pala Rd
Frazee Rd
Mare Rd
Mission Ave
College Blvd
N Redondo Dr
Calle del Palo
Calle de Retiro
Via Rio Ave
Arista Way
Cypress Rd
Forest Rd
Cadena Dr
Alipaz Ct
Pheasant Ln
Killdeer Ln
Via los
Wildwood Dr
Summerhill Dr
Caspian Dr
Palermo Dr
Corona Dr
Prado Ct
Alamosa Park Dr
Silver Bluff Dr
Rio Plata Dr
Silkwood Dr
Robinwood Dr
Gooseberry Way
Blackberry Way
Via Mango
Via Portola
Via Mejares
Francis St
Barry St
Leon St
Gold Dr
Sol Dr
Claire Dr
Stephanie Pl
Cardiff Bay Dr
Coronado Dr
Morro Bay St
Big Sur St
Trunks Bay
Moonstone Bay Dr
Marblehead Bay Dr
Douglas Dr
Avery St
Vinyard St
Holiday Way
Festival Dr
Foxwood Dr
Sunningdale Dr
Point Sur
Point Arguello
Point Loma Dr
Asilado St
Lusitania St
Verde Dr
Siesta Dr
Roja Dr
Luna Dr
Vandergrift Blvd
Tacayme Dr
Calle Valiente
Calle Montecito
Libby Village Way
Riverview Way
Santa Bella
Avenida Descanso
Trinity St
Plumosa St
Del Mesa St
Playa del Rey Ave
Bonsall Way
Allende Ave
Mayflower Way
Goldfinch Way
Estada Dr
Belize Way
Alamo Way
Swallow Ln
Rio Vista Dr
Pala Rd
Louise Foussat Elementary
Baja Vista Dr
Cadena Dr
Creek Rd
Adams St
Andrew Jackson St
Polk St
Harding St
McKinley St
Harrison St
Madison St
Monroe St
Tyler St
Stallion Dr
Flora Dr
Charles Dr
Arthur Ave
Elaine Ave
Michael St
Parker St
Ann St
Rose St
Douglas Dr
Corte
El Mirlo Dr
Hollowell Rd
E Parker St
Mission Ave
Via Mejares
Via Portola
Via Mango
Gardenia St
Manzanita Dr
Oleander Dr
Dalea Pl
Carissa Dr
Mosaic Cir
Palermo Dr
Caspian Dr
Corona Dr
Prado Ct
Alamosa Park Dr
Silver Bluff Dr
Rio Plata Dr
Silkwood Dr
Robinwood Dr
Wildwood Dr
Summerhill Dr
Gooseberry Way
Blackberry Way
Guajome Lake
Guajome
Mission Ave
Via Mango
Via Portola
Via Mejares
Adams St
Andrew Jackson St
Polk St
Harding St
McKinley St
Harrison St
Madison St
Monroe St
Tyler St
College Blvd
N River Rd
Mare Rd
Francis St
Barry St
Leon St
Gold Dr
Sol Dr
Claire Dr
Stephanie Pl
Cardiff Bay Dr
Coronado Dr
Morro Bay St
Big Sur St
Trunks Bay
Moonstone Bay Dr
Marblehead Bay Dr
Douglas Dr
Avery St
Vinyard St
Holiday Way
Festival Dr
Foxwood Dr
Sunningdale Dr
Point Sur
Point Arguello
Point Loma Dr
Asilado St
Lusitania St
Verde Dr
Siesta Dr
Roja Dr
Luna Dr
Vandergrift Blvd
Tacayme Dr
Calle Valiente
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Alamo Way
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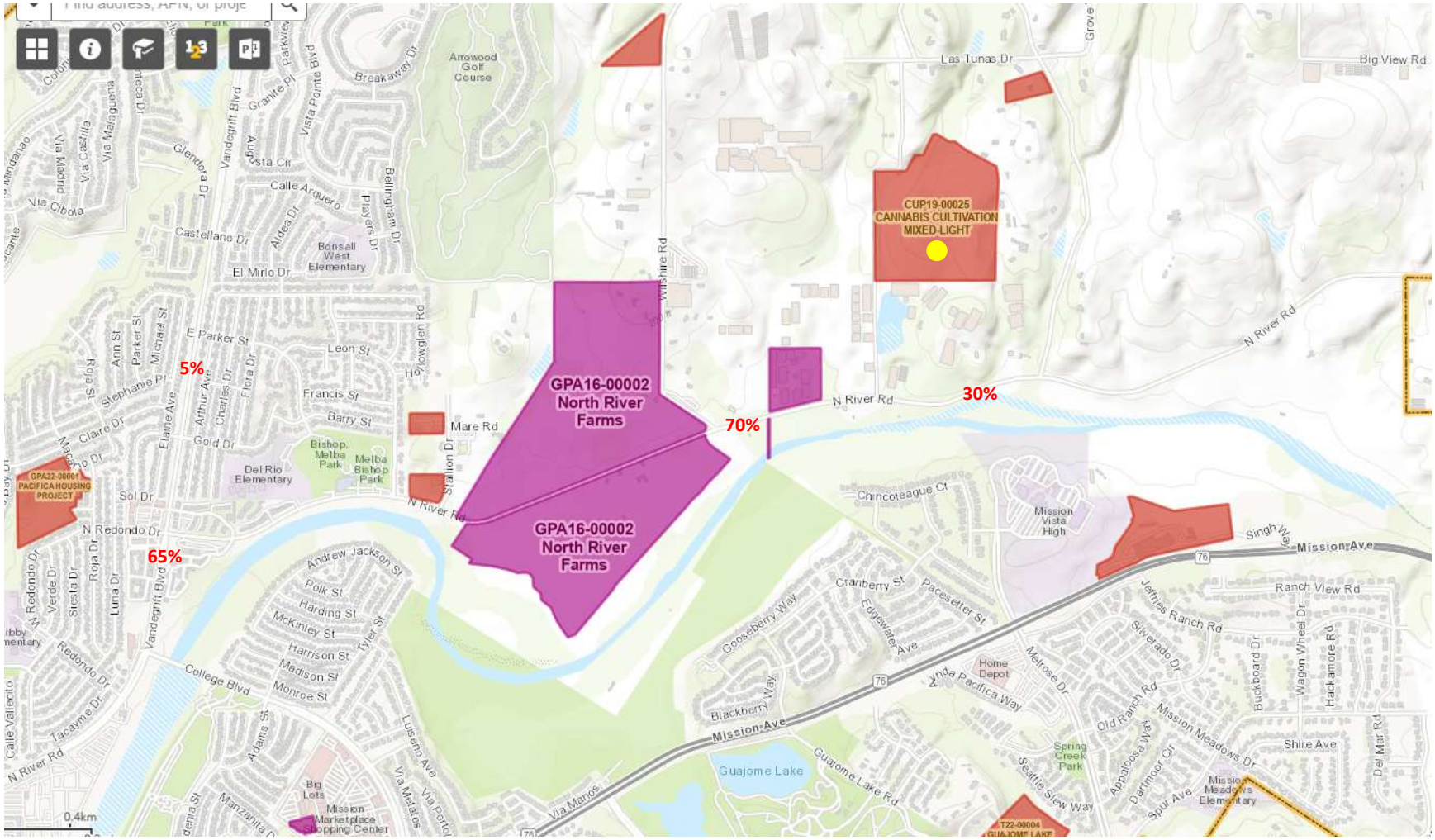
Pala Rd
Louise Foussat Elementary
Baja Vista Dr
Cadena Dr
Creek Rd
Calle del Palo
Calle de Retiro
Via Rio Ave
Arista Way
Cypress Rd
Forest Rd
Alipaz Ct
Pheasant Ln
Killdeer Ln
Via los
Wildwood Dr
Summerhill Dr
Caspian Dr
Palermo Dr
Corona Dr
Prado Ct
Alamosa Park Dr
Silver Bluff Dr
Rio Plata Dr
Silkwood Dr
Robinwood Dr
Inverness Dr
San Joaquin St
Old River St
Brisbane Way
Brisas St
N River Rd
Pala Rd
Frazee Rd
Mare Rd
Mission Ave
College Blvd
N Redondo Dr
Calle del Palo
Calle de Retiro
Via Rio Ave
Arista Way
Cypress Rd
Forest Rd
Cadena Dr

- Trip Distribution - Cannabis Cultivation (CUP19-00023)

- Trip Distribution - Cannabis Cultivation (CUP19-00025)



Graph Look Up

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
190

LAND USE GROUP:
(100-199) Industrial

LAND USE :
190 - Marijuana Cultivation and Processing Fa

LAND USE SUBCATEGORY:
All Sites

SETTING/LOCATION:
General Urban/Suburban

INDEPENDENT VARIABLE (IV):
1000 Sq. Ft. GFA

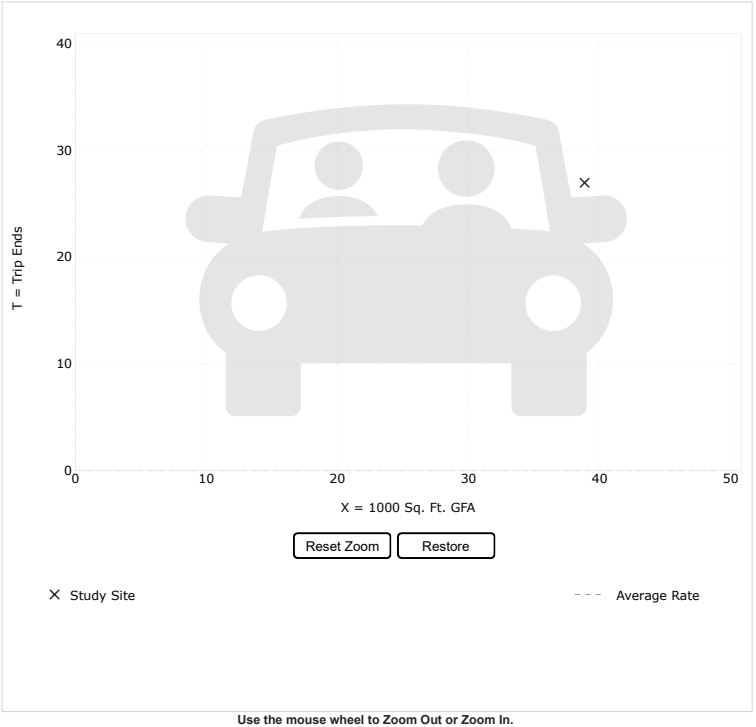
TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
440 Calculate

Data Plot and Equation

Caution – Small Sample Size



Use the mouse wheel to Zoom Out or Zoom In.
Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
Marijuana Cultivation and Processing Facility (190)
Click for Description and Data Plots

Independent Variable:
1000 Sq. Ft. GFA

Time Period:
Weekday
Peak Hour of Adjacent Street Traffic
One Hour Between 7 and 9 a.m.

Setting/Location:
General Urban/Suburban

Trip Type:
Vehicle

Number of Studies:
1

Avg. 1000 Sq. Ft. GFA:
39

Average Rate:
0.69

Range of Rates:
0.69 - 0.69

Standard Deviation:
****

Fitted Curve Equation:
Not Given

R^2:
****

Directional Distribution:
93% entering, 7% exiting

Calculated Trip Ends:
Average Rate: 304 (Total), 282 (Entry), 22 (Exit)

VERSION: 6.0.1 (UPDATES) | DATA: 11TH EDITION | TERMS AND CONDITIONS | PRIVACY | ITE MARKETPLACE

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Graph Look Up

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
190

LAND USE GROUP:
(100-199) Industrial

LAND USE :
190 - Marijuana Cultivation and Processing Fa

LAND USE SUBCATEGORY:
All Sites

SETTING/LOCATION:
General Urban/Suburban

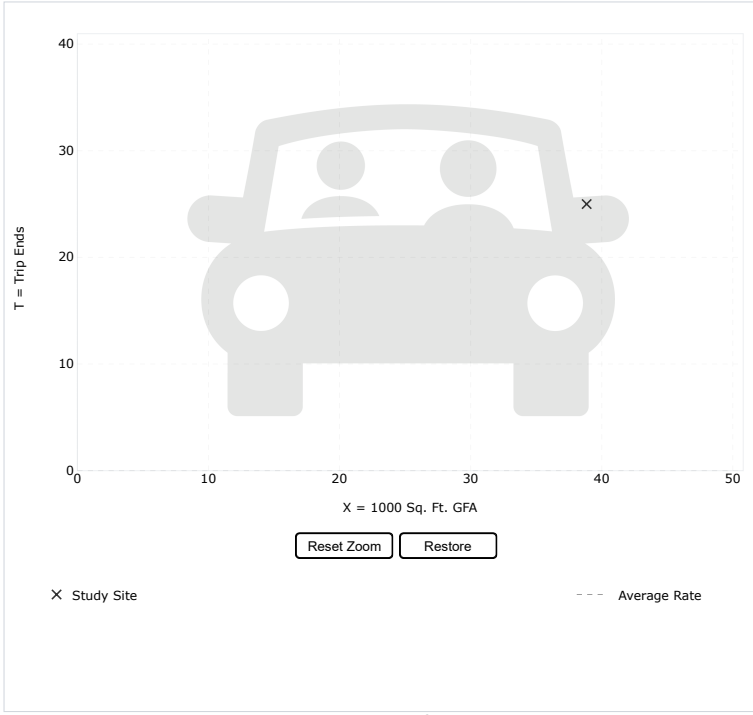
INDEPENDENT VARIABLE (IV):
1000 Sq. Ft. GFA

TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
440 Calculate

Data Plot and Equation *Caution – Small Sample Size*



Use the mouse wheel to Zoom Out or Zoom In.
Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
Marijuana Cultivation and Processing Facility (190)
Click for Description and Data Plots

Independent Variable:
1000 Sq. Ft. GFA

Time Period:
Weekday
Peak Hour of Adjacent Street Traffic
One Hour Between 4 and 6 p.m.

Setting/Location:
General Urban/Suburban

Trip Type:
Vehicle

Number of Studies:
1

Avg. 1000 Sq. Ft. GFA:
39

Average Rate:
0.64

Range of Rates:
0.64 - 0.64

Standard Deviation:
****

Fitted Curve Equation:
Not Given

R^2:
****

Directional Distribution:
28% entering, 72% exiting

Calculated Trip Ends:
Average Rate: 282 (Total), 79 (Entry), 203 (Exit)

Add-ons to do more

Try OTISS Pro

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Graph Look Up

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
190

LAND USE GROUP:
(100-199) Industrial

LAND USE :
190 - Marijuana Cultivation and Processing Fa

LAND USE SUBCATEGORY:
All Sites

SETTING/LOCATION:
General Urban/Suburban

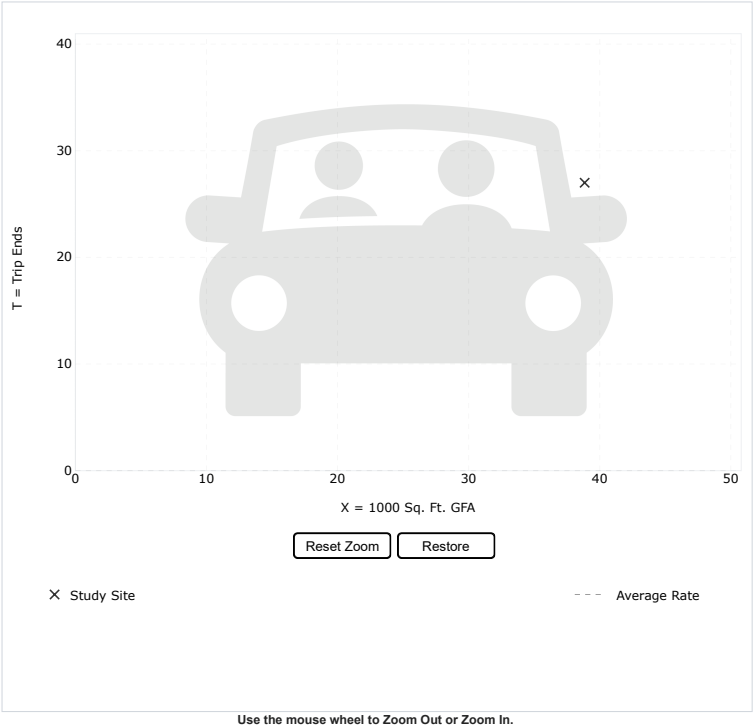
INDEPENDENT VARIABLE (IV):
1000 Sq. Ft. GFA

TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
88 Calculate

Data Plot and Equation *Caution – Small Sample Size*



Use the mouse wheel to Zoom Out or Zoom In.
Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
Marijuana Cultivation and Processing Facility (190)
Click for Description and Data Plots

Independent Variable:
1000 Sq. Ft. GFA

Time Period:
Weekday
Peak Hour of Adjacent Street Traffic
One Hour Between 7 and 9 a.m.

Setting/Location:
General Urban/Suburban

Trip Type:
Vehicle

Number of Studies:
1

Avg. 1000 Sq. Ft. GFA:
39

Average Rate:
0.69

Range of Rates:
0.69 - 0.69

Standard Deviation:
****

Fitted Curve Equation:
Not Given

R^2:
****

Directional Distribution:
93% entering, 7% exiting

Calculated Trip Ends:
Average Rate: 61 (Total), 56 (Entry), 5 (Exit)

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Graph Look Up

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
190

LAND USE GROUP:
(100-199) Industrial

LAND USE :
190 - Marijuana Cultivation and Processing Fa

LAND USE SUBCATEGORY:
All Sites

SETTING/LOCATION:
General Urban/Suburban

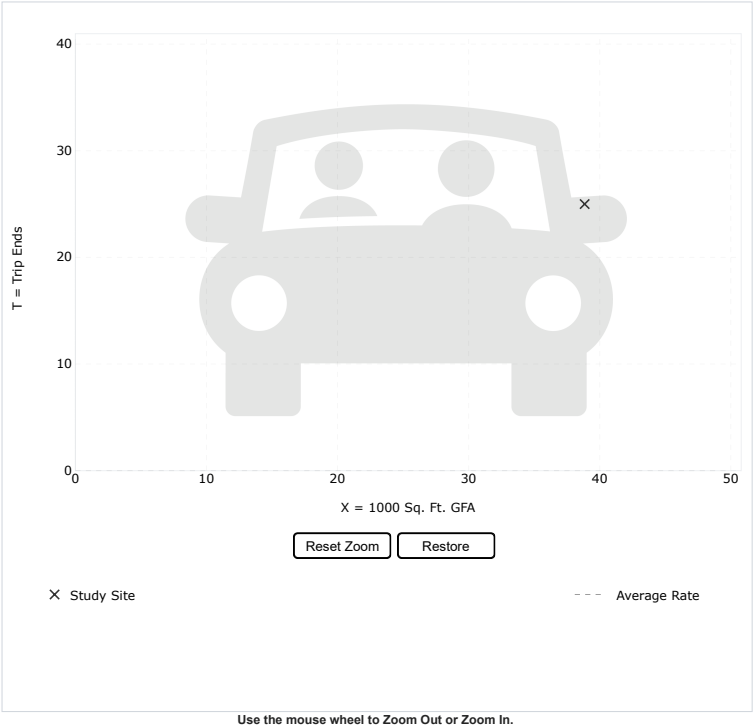
INDEPENDENT VARIABLE (IV):
1000 Sq. Ft. GFA

TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
88 Calculate

Data Plot and Equation *Caution – Small Sample Size*



Use the mouse wheel to Zoom Out or Zoom In.
Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
Marijuana Cultivation and Processing Facility (190)
Click for Description and Data Plots

Independent Variable:
1000 Sq. Ft. GFA

Time Period:
Weekday
Peak Hour of Adjacent Street Traffic
One Hour Between 4 and 6 p.m.

Setting/Location:
General Urban/Suburban

Trip Type:
Vehicle

Number of Studies:
1

Avg. 1000 Sq. Ft. GFA:
39

Average Rate:
0.64

Range of Rates:
0.64 - 0.64

Standard Deviation:
****

Fitted Curve Equation:
Not Given

R^2:
****

Directional Distribution:
28% entering, 72% exiting

Calculated Trip Ends:
Average Rate: 56 (Total), 15 (Entry), 41 (Exit)

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Cumulative Project Trip Generation

Project	Land Use	Units	Trip Rate	ADT	AM Peak Hour					PM Peak Hour				
					%	Trips	Split	In	Out	%	Trips	Split	In	Out
Riverview Springs	Multi-Family (6-20 DU/acre)	47 DU	8/DU	376	8%	31	2:8	6	25	10%	38	7:3	27	11
Cannabis (CUP19-00025)	Marijuana Cultivation and Processing Facility	440 KSF	-	586	-	304	.93:.07	282	22	-	282	.28:.72	79	203
Cannabis (CUP19-00023)		88 KSF	-	117	-	61	.93:.07	56	5	-	56	.28:.72	15	41

Source: SANDAG (not so) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002), ITE Trip Generation Manual 11th Edition

Notes:
ADT = Average Daily Traffic
DU = Dwelling Unit
KSF = 1,000 Square Feet

Trip Assignment - Cumulative Projects AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Total
		1	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	0	37	339	30	29	0	0	0	0	278	0	34	747
		5	0	0	0	0	0	0	0	0	0	0	0	0	0
															747

Trip Assignment - Cumulative Projects PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Total
		1	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	0	47	397	46	64	0	0	0	0	338	0	32	924
		5	0	0	0	0	0	0	0	0	0	0	0	0	0
															924

Trip Assignment - Riverview AM

60 Minute Counts

DATE	TIME	INTID		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1												
			2												
			3												
			4			1		2			0			1	
			5												

Trip Assignment - Riverview PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4		0	1		1					2	
			5											

Trip Assignment - Nagata Property AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4		10	10		2					3	
			5											

Trip Assignment - Nagata Property PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4		5		5		11				11	
			5											

Trip Assignment - N River Farms AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4			108	13					257		32
			5											

Trip Assignment - N River Farms PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4			330	41					166		20
			5											

Trip Assignment - Cannabis 1 AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	
			1												
			2												
			3												
			4			183	14						14		1
			5												

Trip Assignment - Cannabis 1 PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	
			1												
			2												
			3												
			4			51	4					132			10
			5												

Trip Assignment - Cannabis 2 AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	
			1												
			2												
			3												
			4			36	3						3		1
			5												

Trip Assignment - Cannabis 2 PM

60 Minute Counts

DATE	TIME	INTID		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	
			1													
			2													
			3													
			4				10	1						27		2
			5													

Trip Assignment - El Corazon AM

60 Minute Counts

DATE	TIME	INTID		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1												
			2												
			3												
			4			8			13						
			5												

Trip Assignment - El Corazon PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3											
			4		23			25						
			5											

Trip Assignment - Ocean Kamp AM

60 Minute Counts

DATE	TIME	INTID		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1												
			2												
			3												
			4			18			14						
			5												

Trip Assignment - Ocean Kamp PM

60 Minute Counts

DATE	TIME	INTID		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1												
			2												
			3												
			4			19			27						
			5												

Trip Assignment - Modera Melrose AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Modera Melrose PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Rio Rockwell AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Rio Rockwell PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Cypress Point AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Cypress Point PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Guajome Lake Road Subdivision AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Guajome Lake Road Subdivision PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Sunrise Assisted Care Facility AM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Trip Assignment - Sunrise Assisted Care Facility PM

60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
			1											
			2											
			3				Project Does Not Contribute Trips to Study Area							
			4											
			5											

Appendix H - LOS Calculation Worksheets – Near-Term Year 2025 Base Conditions

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	12	54	1	19	4	35	13	3	5	17	16
Future Vol, veh/h	9	12	54	1	19	4	35	13	3	5	17	16
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	14	64	1	22	5	41	15	4	6	20	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	158	147	37	185	154	18	42	0	0	20	0	0
Stage 1	45	45	-	100	100	-	-	-	-	-	-	-
Stage 2	113	102	-	85	54	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	808	744	1035	776	738	1061	1567	-	-	1596	-	-
Stage 1	969	857	-	906	812	-	-	-	-	-	-	-
Stage 2	892	811	-	923	850	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	764	718	1028	697	712	1060	1563	-	-	1594	-	-
Mov Cap-2 Maneuver	764	718	-	697	712	-	-	-	-	-	-	-
Stage 1	940	851	-	881	789	-	-	-	-	-	-	-
Stage 2	840	788	-	845	844	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.3	10	5.1	1
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1563	-	-	926	752	1594	-	-
HCM Lane V/C Ratio	0.026	-	-	0.095	0.038	0.004	-	-
HCM Control Delay (s)	7.4	0	-	9.3	10	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.1	0	-	-

Intersection	
Int Delay, s/veh	6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	16	33	2	7	1	45	27	5	1	18	11
Future Vol, veh/h	20	16	33	2	7	1	45	27	5	1	18	11
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	18	36	2	8	1	49	30	5	1	20	12

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	171	172	35	190	176	36	40	0	0	38	0	0
Stage 1	36	36	-	134	134	-	-	-	-	-	-	-
Stage 2	135	136	-	56	42	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	792	721	1038	770	717	1037	1570	-	-	1572	-	-
Stage 1	980	865	-	869	785	-	-	-	-	-	-	-
Stage 2	868	784	-	956	860	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	759	689	1029	708	685	1034	1558	-	-	1568	-	-
Mov Cap-2 Maneuver	759	689	-	708	685	-	-	-	-	-	-	-
Stage 1	942	857	-	839	758	-	-	-	-	-	-	-
Stage 2	831	757	-	902	852	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.7	10.1	4.3	0.2
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1558	-	-	845	714	1568	-	-
HCM Lane V/C Ratio	0.032	-	-	0.09	0.015	0.001	-	-
HCM Control Delay (s)	7.4	0	-	9.7	10.1	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	2	83	64	2	39	24
Future Vol, veh/h	2	83	64	2	39	24
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	102	79	2	48	30
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7	7.9	7.6
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	62%	0%	97%
Vol Thru, %	0%	2%	3%
Vol Right, %	38%	98%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	63	85	66
LT Vol	39	0	64
Through Vol	0	2	2
RT Vol	24	83	0
Lane Flow Rate	78	105	81
Geometry Grp	1	1	1
Degree of Util (X)	0.09	0.103	0.098
Departure Headway (Hd)	4.147	3.545	4.345
Convergence, Y/N	Yes	Yes	Yes
Cap	856	999	821
Service Time	2.215	1.61	2.396
HCM Lane V/C Ratio	0.091	0.105	0.099
HCM Control Delay	7.6	7	7.9
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.3	0.3	0.3

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	2	50	28	4	76	33
Future Vol, veh/h	2	50	28	4	76	33
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	58	33	5	88	38
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	6.9	7.7	7.8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	70%	0%	88%
Vol Thru, %	0%	4%	12%
Vol Right, %	30%	96%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	109	52	32
LT Vol	76	0	28
Through Vol	0	2	4
RT Vol	33	50	0
Lane Flow Rate	127	60	37
Geometry Grp	1	1	1
Degree of Util (X)	0.143	0.061	0.045
Departure Headway (Hd)	4.06	3.608	4.38
Convergence, Y/N	Yes	Yes	Yes
Cap	881	980	810
Service Time	2.097	1.678	2.446
HCM Lane V/C Ratio	0.144	0.061	0.046
HCM Control Delay	7.8	6.9	7.7
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.5	0.2	0.1

Intersection	
Int Delay, s/veh	6.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	1	3	45	41	3	5	9	108	9	37
Future Vol, veh/h	20	40	1	3	45	41	3	5	9	108	9	37
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	53	1	4	59	54	4	7	12	142	12	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	141	0	0	89	0	0	268	290	98	246	263	116
Stage 1	-	-	-	-	-	-	141	141	-	122	122	-
Stage 2	-	-	-	-	-	-	127	149	-	124	141	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1442	-	-	1506	-	-	685	620	958	708	642	936
Stage 1	-	-	-	-	-	-	862	780	-	882	795	-
Stage 2	-	-	-	-	-	-	877	774	-	880	780	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1404	-	-	1456	-	-	606	570	918	657	591	909
Mov Cap-2 Maneuver	-	-	-	-	-	-	606	570	-	657	591	-
Stage 1	-	-	-	-	-	-	817	740	-	842	771	-
Stage 2	-	-	-	-	-	-	813	751	-	837	740	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.3	10.1	12.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	723	1404	-	-	1456	-	-	699
HCM Lane V/C Ratio	0.031	0.019	-	-	0.003	-	-	0.29
HCM Control Delay (s)	10.1	7.6	0	-	7.5	0	-	12.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0	-	-	1.2

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	15	30	2	9	37	94	2	8	5	70	3	15
Future Vol, veh/h	15	30	2	9	37	94	2	8	5	70	3	15
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	34	2	10	43	108	2	9	6	80	3	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	54	0	0	215	264	67	214	211	104
Stage 1	-	-	-	-	-	-	87	87	-	123	123	-
Stage 2	-	-	-	-	-	-	128	177	-	91	88	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1551	-	-	742	641	997	743	686	951
Stage 1	-	-	-	-	-	-	921	823	-	881	794	-
Stage 2	-	-	-	-	-	-	876	753	-	916	822	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1415	-	-	1524	-	-	702	615	967	706	658	945
Mov Cap-2 Maneuver	-	-	-	-	-	-	702	615	-	706	658	-
Stage 1	-	-	-	-	-	-	894	799	-	865	784	-
Stage 2	-	-	-	-	-	-	849	743	-	877	798	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.4	0.5	10.2	10.7
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	713	1415	-	-	1524	-	-	736
HCM Lane V/C Ratio	0.024	0.012	-	-	0.007	-	-	0.137
HCM Control Delay (s)	10.2	7.6	0	-	7.4	0	-	10.7
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	68	130	743	89	249	100	853	648	134	846	42
Future Volume (veh/h)	24	68	130	743	89	249	100	853	648	134	846	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.90	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	25	70	107	766	92	231	103	879	534	138	872	35
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	42	288	220	582	140	351	128	2060	619	165	1507	647
Arrive On Green	0.02	0.15	0.15	0.17	0.30	0.30	0.07	0.40	0.40	0.09	0.42	0.42
Sat Flow, veh/h	1781	1870	1431	3456	468	1176	1781	5106	1535	1781	3554	1525
Grp Volume(v), veh/h	25	70	107	766	0	323	103	879	534	138	872	35
Grp Sat Flow(s),veh/h/ln	1781	1870	1431	1728	0	1645	1781	1702	1535	1781	1777	1525
Q Serve(g_s), s	1.7	3.9	8.2	20.2	0.0	20.6	6.8	14.9	38.2	9.1	22.5	1.6
Cycle Q Clear(g_c), s	1.7	3.9	8.2	20.2	0.0	20.6	6.8	14.9	38.2	9.1	22.5	1.6
Prop In Lane	1.00		1.00	1.00		0.72	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	42	288	220	582	0	491	128	2060	619	165	1507	647
V/C Ratio(X)	0.60	0.24	0.49	1.32	0.00	0.66	0.81	0.43	0.86	0.84	0.58	0.05
Avail Cap(c_a), veh/h	211	373	285	582	0	491	211	2060	619	211	1507	647
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.0	44.6	46.4	49.9	0.0	36.7	54.9	25.8	32.7	53.6	26.4	20.4
Incr Delay (d2), s/veh	9.6	0.4	1.7	154.4	0.0	3.2	8.5	0.6	14.7	18.9	1.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.9	2.9	20.9	0.0	8.4	3.3	5.9	15.9	4.8	9.2	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.6	45.0	48.1	204.3	0.0	39.9	63.4	26.4	47.5	72.4	28.0	20.5
LnGrp LOS	E	D	D	F	A	D	E	C	D	E	C	C
Approach Vol, veh/h		202			1089			1516			1045	
Approach Delay, s/veh		49.4			155.6			36.4			33.6	
Approach LOS		D			F			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.2	54.2	25.3	24.3	13.7	56.7	7.9	41.7
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	14.2	39.9	20.2	23.9	14.2	39.9	14.2	29.9
Max Q Clear Time (g_c+I1), s	11.1	40.2	22.2	10.2	8.8	24.5	3.7	22.6
Green Ext Time (p_c), s	0.1	0.0	0.0	0.6	0.1	7.4	0.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	70.0
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	83	121	593	103	119	225	812	824	294	1045	49
Future Volume (veh/h)	60	83	121	593	103	119	225	812	824	294	1045	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.87	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	84	98	599	104	108	227	820	666	297	1056	39
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	79	310	227	658	258	268	253	1579	469	319	1230	531
Arrive On Green	0.04	0.17	0.17	0.19	0.31	0.31	0.14	0.31	0.31	0.18	0.35	0.35
Sat Flow, veh/h	1781	1870	1373	3456	828	860	1781	5106	1518	1781	3554	1534
Grp Volume(v), veh/h	61	84	98	599	0	212	227	820	666	297	1056	39
Grp Sat Flow(s),veh/h/ln	1781	1870	1373	1728	0	1687	1781	1702	1518	1781	1777	1534
Q Serve(g_s), s	4.7	5.5	9.0	23.8	0.0	13.9	17.5	18.5	43.3	23.0	38.7	2.4
Cycle Q Clear(g_c), s	4.7	5.5	9.0	23.8	0.0	13.9	17.5	18.5	43.3	23.0	38.7	2.4
Prop In Lane	1.00		1.00	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	79	310	227	658	0	526	253	1579	469	319	1230	531
V/C Ratio(X)	0.77	0.27	0.43	0.91	0.00	0.40	0.90	0.52	1.42	0.93	0.86	0.07
Avail Cap(c_a), veh/h	461	350	257	763	0	526	461	1579	469	333	1230	531
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	66.2	51.0	52.5	55.5	0.0	37.9	59.0	39.8	48.4	56.6	42.6	30.7
Incr Delay (d2), s/veh	11.2	0.5	1.3	13.4	0.0	0.5	8.3	1.2	200.7	31.0	7.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	2.7	3.1	11.3	0.0	5.7	8.3	7.8	42.0	12.8	17.6	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.4	51.5	53.8	68.9	0.0	38.4	67.3	41.0	249.1	87.6	50.5	31.0
LnGrp LOS	E	D	D	E	A	D	E	D	F	F	D	C
Approach Vol, veh/h		243			811			1713			1392	
Approach Delay, s/veh		58.9			61.0			125.4			57.9	
Approach LOS		E			E			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.2	49.1	31.7	29.0	25.0	54.3	11.3	49.4
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	26.2	34.9	30.9	26.2	36.2	24.9	36.2	20.9
Max Q Clear Time (g_c+I1), s	25.0	45.3	25.8	11.0	19.5	40.7	6.7	15.9
Green Ext Time (p_c), s	0.1	0.0	0.9	0.7	0.4	0.0	0.1	0.4

Intersection Summary	
HCM 6th Ctrl Delay	86.3
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.

Appendix I - LOS Calculation Worksheets – Near-Term Year 2025 Base with Project Conditions

Intersection	
Int Delay, s/veh	6.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	12	56	1	19	4	43	13	3	5	17	16
Future Vol, veh/h	9	12	56	1	19	4	43	13	3	5	17	16
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	14	66	1	22	5	51	15	4	6	20	19

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	178	167	37	206	174	18	42	0	0	20	0	0
Stage 1	45	45	-	120	120	-	-	-	-	-	-	-
Stage 2	133	122	-	86	54	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	784	726	1035	752	719	1061	1567	-	-	1596	-	-
Stage 1	969	857	-	884	796	-	-	-	-	-	-	-
Stage 2	870	795	-	922	850	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	738	696	1028	670	690	1060	1563	-	-	1594	-	-
Mov Cap-2 Maneuver	738	696	-	670	690	-	-	-	-	-	-	-
Stage 1	934	851	-	854	769	-	-	-	-	-	-	-
Stage 2	813	768	-	842	844	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.4	10.1	5.4	1
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1563	-	-	918	732	1594	-	-
HCM Lane V/C Ratio	0.032	-	-	0.099	0.039	0.004	-	-
HCM Control Delay (s)	7.4	0	-	9.4	10.1	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0.1	0	-	-

Intersection	
Int Delay, s/veh	6.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	16	42	2	7	1	49	27	5	1	18	11
Future Vol, veh/h	20	16	42	2	7	1	49	27	5	1	18	11
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	22	18	46	2	8	1	54	30	5	1	20	12

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	181	182	35	205	186	36	40	0	0	38	0	0
Stage 1	36	36	-	144	144	-	-	-	-	-	-	-
Stage 2	145	146	-	61	42	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	781	712	1038	753	708	1037	1570	-	-	1572	-	-
Stage 1	980	865	-	859	778	-	-	-	-	-	-	-
Stage 2	858	776	-	950	860	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	747	679	1029	683	675	1034	1558	-	-	1568	-	-
Mov Cap-2 Maneuver	747	679	-	683	675	-	-	-	-	-	-	-
Stage 1	939	857	-	826	748	-	-	-	-	-	-	-
Stage 2	819	747	-	887	852	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.7	10.2	4.5	0.2
HCM LOS	A	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1558	-	-	856	701	1568	-	-
HCM Lane V/C Ratio	0.035	-	-	0.1	0.016	0.001	-	-
HCM Control Delay (s)	7.4	0	-	9.7	10.2	7.3	0	-
HCM Lane LOS	A	A	-	A	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.3	0	0	-	-

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	150	64	4	56	24
Future Vol, veh/h	10	150	64	4	56	24
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	185	79	5	69	30
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.6	8.1	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	70%	0%	94%
Vol Thru, %	0%	6%	6%
Vol Right, %	30%	94%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	80	160	68
LT Vol	56	0	64
Through Vol	0	10	4
RT Vol	24	150	0
Lane Flow Rate	99	198	84
Geometry Grp	1	1	1
Degree of Util (X)	0.12	0.198	0.104
Departure Headway (Hd)	4.375	3.609	4.45
Convergence, Y/N	Yes	Yes	Yes
Cap	807	976	795
Service Time	2.47	1.698	2.535
HCM Lane V/C Ratio	0.123	0.203	0.106
HCM Control Delay	8.1	7.6	8.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.4	0.7	0.3

Intersection	
Intersection Delay, s/veh	8.3
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	6	82	28	13	150	33
Future Vol, veh/h	6	82	28	13	150	33
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	95	33	15	174	38
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.4	8	8.8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	82%	0%	68%
Vol Thru, %	0%	7%	32%
Vol Right, %	18%	93%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	183	88	41
LT Vol	150	0	28
Through Vol	0	6	13
RT Vol	33	82	0
Lane Flow Rate	213	102	48
Geometry Grp	1	1	1
Degree of Util (X)	0.251	0.112	0.062
Departure Headway (Hd)	4.247	3.923	4.668
Convergence, Y/N	Yes	Yes	Yes
Cap	836	919	771
Service Time	2.325	1.925	2.672
HCM Lane V/C Ratio	0.255	0.111	0.062
HCM Control Delay	8.8	7.4	8
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1	0.4	0.2

Intersection	
Int Delay, s/veh	8.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	1	3	45	56	3	7	9	167	17	37
Future Vol, veh/h	20	40	1	3	45	56	3	7	9	167	17	37
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	53	1	4	59	74	4	9	12	220	22	49

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	161	0	0	89	0	0	283	310	98	257	273	126
Stage 1	-	-	-	-	-	-	141	141	-	132	132	-
Stage 2	-	-	-	-	-	-	142	169	-	125	141	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1418	-	-	1506	-	-	669	605	958	696	634	924
Stage 1	-	-	-	-	-	-	862	780	-	871	787	-
Stage 2	-	-	-	-	-	-	861	759	-	879	780	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1380	-	-	1456	-	-	583	557	918	644	583	898
Mov Cap-2 Maneuver	-	-	-	-	-	-	583	557	-	644	583	-
Stage 1	-	-	-	-	-	-	817	740	-	832	763	-
Stage 2	-	-	-	-	-	-	787	736	-	833	740	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.2	10.4	14.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	690	1380	-	-	1456	-	-	670
HCM Lane V/C Ratio	0.036	0.019	-	-	0.003	-	-	0.434
HCM Control Delay (s)	10.4	7.7	0	-	7.5	0	-	14.4
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0	-	-	2.2

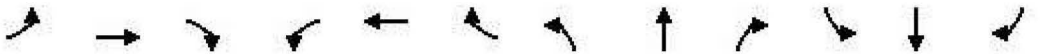
Intersection	
Int Delay, s/veh	4.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	15	30	2	9	37	158	2	17	5	98	7	15
Future Vol, veh/h	15	30	2	9	37	158	2	17	5	98	7	15
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	34	2	10	43	182	2	20	6	113	8	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	231	0	0	54	0	0	255	338	67	256	248	141
Stage 1	-	-	-	-	-	-	87	87	-	160	160	-
Stage 2	-	-	-	-	-	-	168	251	-	96	88	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1337	-	-	1551	-	-	698	583	997	697	655	907
Stage 1	-	-	-	-	-	-	921	823	-	842	766	-
Stage 2	-	-	-	-	-	-	834	699	-	911	822	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1329	-	-	1524	-	-	655	558	967	651	627	901
Mov Cap-2 Maneuver	-	-	-	-	-	-	655	558	-	651	627	-
Stage 1	-	-	-	-	-	-	893	798	-	826	755	-
Stage 2	-	-	-	-	-	-	802	689	-	860	797	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.5	0.3	11.1	11.7
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	620	1329	-	-	1524	-	-	673
HCM Lane V/C Ratio	0.044	0.013	-	-	0.007	-	-	0.205
HCM Control Delay (s)	11.1	7.7	0	-	7.4	0	-	11.7
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0.8



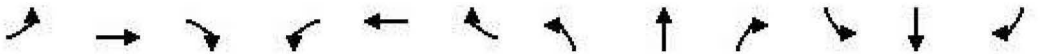
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	85	155	743	93	249	106	853	648	134	846	46
Future Volume (veh/h)	41	85	155	743	93	249	106	853	648	134	846	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.91	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	42	88	127	766	96	231	109	879	534	138	872	37
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	56	299	230	582	144	345	134	2030	610	165	1474	632
Arrive On Green	0.03	0.16	0.16	0.17	0.30	0.30	0.08	0.40	0.40	0.09	0.41	0.41
Sat Flow, veh/h	1781	1870	1436	3456	484	1163	1781	5106	1534	1781	3554	1524
Grp Volume(v), veh/h	42	88	127	766	0	327	109	879	534	138	872	37
Grp Sat Flow(s),veh/h/ln	1781	1870	1436	1728	0	1647	1781	1702	1534	1781	1777	1524
Q Serve(g_s), s	2.8	5.0	9.8	20.2	0.0	20.9	7.2	15.0	38.6	9.1	22.8	1.7
Cycle Q Clear(g_c), s	2.8	5.0	9.8	20.2	0.0	20.9	7.2	15.0	38.6	9.1	22.8	1.7
Prop In Lane	1.00		1.00	1.00		0.71	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	56	299	230	582	0	489	134	2030	610	165	1474	632
V/C Ratio(X)	0.75	0.29	0.55	1.32	0.00	0.67	0.81	0.43	0.88	0.84	0.59	0.06
Avail Cap(c_a), veh/h	211	373	286	582	0	489	211	2030	610	211	1474	632
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.7	44.4	46.5	49.9	0.0	37.0	54.6	26.3	33.4	53.6	27.2	21.1
Incr Delay (d2), s/veh	13.9	0.5	2.1	154.4	0.0	3.5	9.8	0.7	16.1	18.9	1.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	2.4	3.5	20.9	0.0	8.6	3.5	6.0	16.3	4.8	9.4	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.5	45.0	48.5	204.3	0.0	40.5	64.4	27.0	49.5	72.4	29.0	21.2
LnGrp LOS	E	D	D	F	A	D	E	C	D	E	C	C
Approach Vol, veh/h		257			1093			1522			1047	
Approach Delay, s/veh		51.1			155.3			37.5			34.4	
Approach LOS		D			F			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.2	53.5	25.3	25.0	14.2	55.6	8.9	41.4
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	14.2	39.9	20.2	23.9	14.2	39.9	14.2	29.9
Max Q Clear Time (g_c+I1), s	11.1	40.6	22.2	11.8	9.2	24.8	4.8	22.9
Green Ext Time (p_c), s	0.1	0.0	0.0	0.7	0.1	7.3	0.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	70.5
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	91	133	593	121	119	253	812	824	294	1045	67
Future Volume (veh/h)	68	91	133	593	121	119	253	812	824	294	1045	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.87	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	69	92	106	599	122	108	256	820	666	297	1056	54
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	89	312	229	658	277	245	282	1573	468	319	1168	504
Arrive On Green	0.05	0.17	0.17	0.19	0.31	0.31	0.16	0.31	0.31	0.18	0.33	0.33
Sat Flow, veh/h	1781	1870	1374	3456	902	798	1781	5106	1518	1781	3554	1533
Grp Volume(v), veh/h	69	92	106	599	0	230	256	820	666	297	1056	54
Grp Sat Flow(s),veh/h/ln	1781	1870	1374	1728	0	1700	1781	1702	1518	1781	1777	1533
Q Serve(g_s), s	5.4	6.0	9.7	23.8	0.0	15.2	19.8	18.5	43.1	23.0	39.7	3.4
Cycle Q Clear(g_c), s	5.4	6.0	9.7	23.8	0.0	15.2	19.8	18.5	43.1	23.0	39.7	3.4
Prop In Lane	1.00		1.00	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	89	312	229	658	0	522	282	1573	468	319	1168	504
V/C Ratio(X)	0.78	0.30	0.46	0.91	0.00	0.44	0.91	0.52	1.42	0.93	0.90	0.11
Avail Cap(c_a), veh/h	461	350	257	763	0	522	461	1573	468	333	1168	504
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.8	51.1	52.7	55.5	0.0	38.8	57.9	39.9	48.4	56.6	44.9	32.7
Incr Delay (d2), s/veh	10.3	0.5	1.5	13.4	0.0	0.6	12.2	1.2	203.2	31.0	11.5	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	2.9	3.4	11.3	0.0	6.3	9.7	7.8	42.2	12.8	18.6	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.1	51.6	54.1	68.9	0.0	39.4	70.0	41.2	251.6	87.6	56.4	33.1
LnGrp LOS	E	D	D	E	A	D	E	D	F	F	E	C
Approach Vol, veh/h		267			829			1742			1407	
Approach Delay, s/veh		58.9			60.7			125.9			62.1	
Approach LOS		E			E			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.2	48.9	31.7	29.1	27.3	51.8	12.1	48.8
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	26.2	34.9	30.9	26.2	36.2	24.9	36.2	20.9
Max Q Clear Time (g_c+I1), s	25.0	45.1	25.8	11.7	21.8	41.7	7.4	17.2
Green Ext Time (p_c), s	0.1	0.0	0.9	0.7	0.4	0.0	0.1	0.4

Intersection Summary	
HCM 6th Ctrl Delay	87.8
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.

Intersection	
Int Delay, s/veh	4.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	19	51	8	76	72	2
Future Vol, veh/h	19	51	8	76	72	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	55	9	83	78	2

Major/Minor	Minor2		Major2	
Conflicting Flow All	158	2	0	0
Stage 1	158	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	734	1082	-	-
Stage 1	767	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1082	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.6	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1082	-	-
HCM Lane V/C Ratio	0.084	-	-
HCM Control Delay (s)	8.6	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.3	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	83	77	4	36	53	9
Future Vol, veh/h	83	77	4	36	53	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	90	84	4	39	58	10

Major/Minor	Minor2		Major2	
Conflicting Flow All	126	10	0	0
Stage 1	126	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	764	1071	-	-
Stage 1	792	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1071	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.5	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1071	-	-
HCM Lane V/C Ratio	0.041	-	-
HCM Control Delay (s)	8.5	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-

Appendix J - Transportation Forecast Information Center (TFIC) Volumes and Horizon Year 2050 Volume Development

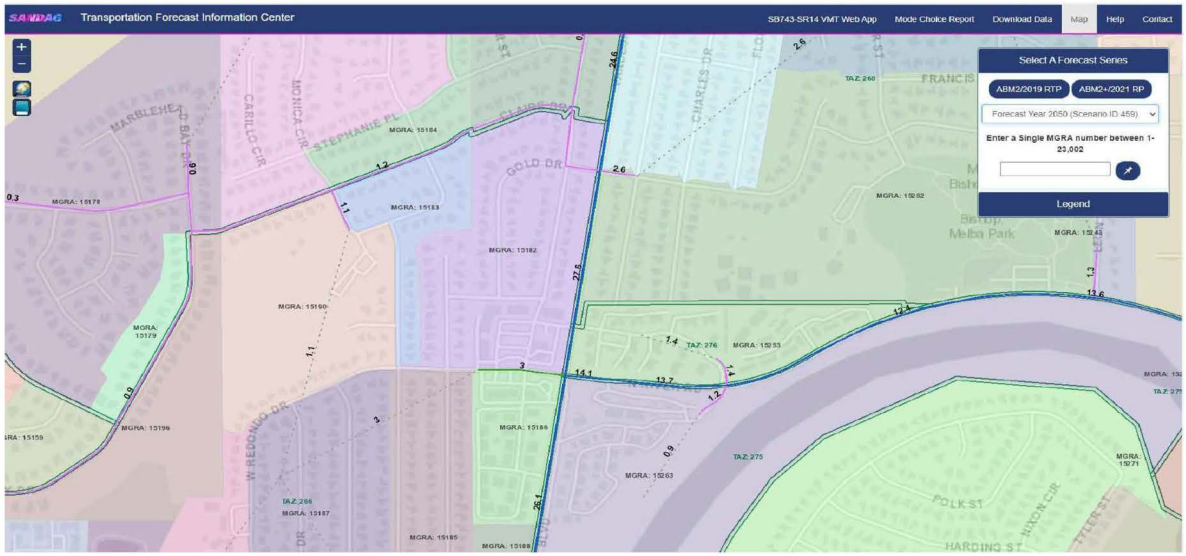
Observed % per Year

Roadway	Segment	ADT per TFIC (2050)	ADT per TFIC (2016)	Growth per Year (2016 - 2050)	TFIC Growth % per Year (2016 - 2050)
Monica Circle	Claire Drive to Macario Drive	1,100	1,300	-6	-0.45%
Macario Drive	Monica Circle to Roja Drive	1,100	1,300	-6	-0.45%
Roja Drive	Macario Drive to N Redondo Drive	1,900	1,500	12	**0.78%**
N Redondo Drive	Roja Drive to Vandegrift Boulevard	3,000	2,800	6	0.21%

SANDAG Series 14 ABM2+/2021 RP model

Note:
ADT = Average Daily Traffic
TFIC = Transportation Forecast Information Center

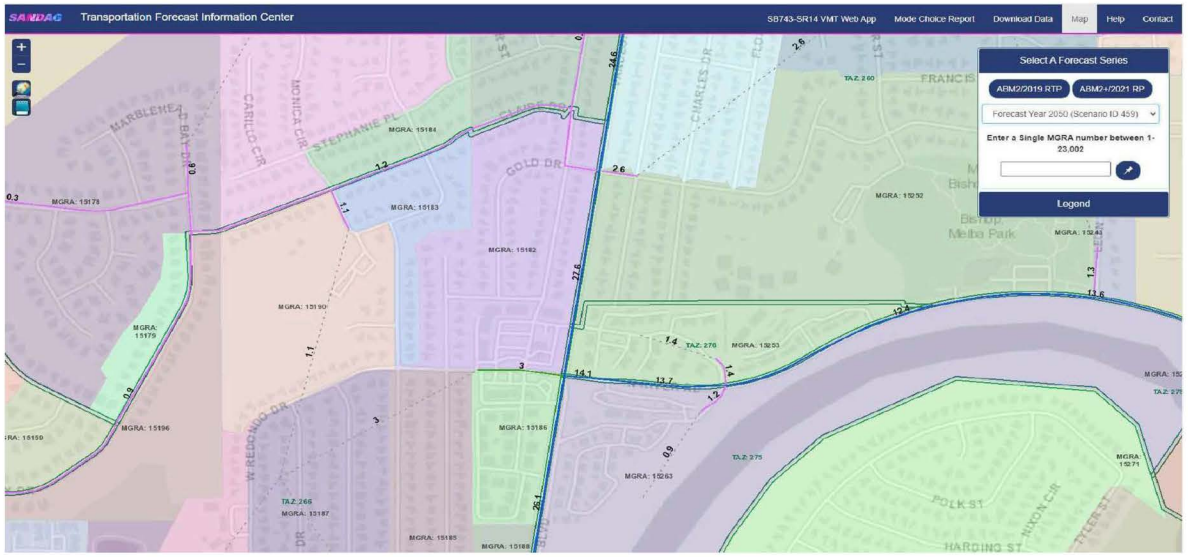
Existing Volumes	Existing Movement Volume												Directional volume (Leg)				Existing ADT				Future ADT				Leg Growth				Future Directional Volume				Future Directional Growth				Movement Growth												Future Movement											
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	N	S	E	W	N Leg	S Leg	E Leg	W Leg	N Leg	S Leg	E Leg	W Leg	N Leg	S Leg	E Leg	W Leg	N	S	E	W	N	S	E	W	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1: Monica Circle & Claire Drive	38	13	3	6	17	16	5	12	54	1	19	4	38	81	24	75	1,487	1,487	0	0	1,900	1,900	0	0	121%	121%	110%	110%	46	62	25	83	5	11	2	5	4	4	4	3	3	3	2	3	1	1	1	39	17	7	9	20	19	12	14	57	2	25	6
2: Soja Drive & Macario Drive	39		24				2	93	94	2			5	63	66	85	0	2,247	0	1,487	0	2,800	0	1,900	0%	124%	110%	121%	6	78	73	103	0	15	7	18	8	6	7	5	5	5	6	8	18	4	3	6	47	9	31	0	0	0	0	15	93	68	5	8
3: Soja Drive & N. Redondo Drive	3	5	8	108	9	37	20	40	1	3	40	41	194	17	89	61	2,207	0	4,401	0	2,800	0	4,800	0	124%	110%	107%	110%	196	19	99	67	30	2	5	6	1	1	1	12	12	12	2	2	2	2	2	2	4	6	10	120	21	49	22	42	3	6	47	43
4: Vandegrift Boulevard / N. River Road & N. Redondo Drive	100	816	369	104	817	42	24	68	136	405	93	215	983	1225	769	222	26,428	39,633	14,366	4,401	35,300	49,500	18,000	4,800	124%	124%	124%	107%	1196	1523	894	227	233	299	185	16	92	104	104	81	82	70	6	5	5	63	56	63	196	928	413	180	893	112	29	73	135	930	149	299



Turning Movement Count (Unbalanced)
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1: Monica Circle & Claire Drive	40	20	10	10	20	20	20	20	60	10	20	10
		2: Roja Drive & Macario Drive	50	0	40	0	0	0	0	10	100	70	10	0
		3: Roja Drive & N. Redondo Drive	10	10	10	120	30	50	30	50	10	10	50	50
		4: Vandegrift Boulevard / N. River Road & N. Redor	190	920	420	190	900	120	30	80	140	530	150	280

Existing Volumes	Existing Movement Volume												Directional volume (Leg)				Existing ADT				Future ADT				Leg Growth				Future Directional Volume				Future Directional Growth				Movement Growth												Future Movement											
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	N	S	E	W	N Leg	S Leg	E Leg	W Leg	N Leg	S Leg	E Leg	W Leg	N Leg	S Leg	E Leg	W Leg	N	S	E	W	N	S	E	W	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
1: Monica Circle & Claire Drive	45	27	5	1	19	11	20	15	33	2	7	1	30	77	10	69	1,487	1,487	0	0	1,800	1,800	0	0	121%	121%	110%	110%	36	93	11	76	6	14	1	7	5	6	5	2	2	2	2	2	2	0	0	0	50	33	10	3	20	13	22	16	35	2	7	1
2: Roja Drive & Macario Drive	76	1	33	1	1	1	1	2	90	28	4	1	0	109	32	52	0	2,267	0	1,487	0	2,800	0	1,800	0%	124%	110%	121%	0	135	35	63	0	29	3	11	14	0	12	0	0	0	0	5	6	2	1	0	90	0	45	0	0	0	0	7	56	30	5	0
3: Roja Drive & N. Redondo Drive	2	0	6	70	3	15	15	30	2	9	37	94	88	15	140	47	2,267	0	4,491	0	2,800	0	4,800	0	124%	110%	107%	110%	109	17	150	52	21	2	10	5	1	1	1	7	7	7	2	2	2	3	3	4	3	9	6	77	10	22	17	32	4	12	40	98
4: Vandegrift Boulevard / N. River Road & N. Redondo Drive	225	765	427	248	961	49	60	83	121	255	103	87	1278	1417	445	264	28,428	39,633	14,986	4,491	35,300	49,300	18,600	4,800	124%	124%	124%	107%	1587	1762	552	292	309	345	107	18	104	121	121	109	109	93	6	6	6	37	32	37	329	886	549	356	1089	142	66	89	127	292	135	124



Turning Movement Count (Unbalanced)
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1: Monica Circle & Claire Drive	50	40	10	10	20	20	30	20	40	10	10	10
		2: Roja Drive & Macario Drive	90	0	50	0	0	0	0	10	60	30	10	0
		3: Roja Drive & N. Redondo Drive	10	10	10	80	10	30	20	40	10	20	40	100
		4: Vandegrift Boulevard / N. River Road & N. Redor	330	890	550	360	1090	150	70	90	130	300	140	130

Appendix K - LOS Calculation Worksheets – Horizon Year 2050 Conditions

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	20	60	10	20	10	40	20	10	10	30	20
Future Vol, veh/h	20	20	60	10	20	10	40	20	10	10	30	20
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	24	71	12	24	12	47	24	12	12	35	24

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	216	205	54	248	211	31	62	0	0	37	0	0
Stage 1	74	74	-	125	125	-	-	-	-	-	-	-
Stage 2	142	131	-	123	86	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	740	691	1013	706	686	1043	1541	-	-	1574	-	-
Stage 1	935	833	-	879	792	-	-	-	-	-	-	-
Stage 2	861	788	-	881	824	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	689	661	1006	617	657	1042	1537	-	-	1573	-	-
Mov Cap-2 Maneuver	689	661	-	617	657	-	-	-	-	-	-	-
Stage 1	903	824	-	851	767	-	-	-	-	-	-	-
Stage 2	800	763	-	786	815	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10	10.4	4.2	1.2
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1537	-	-	841	711	1573	-	-
HCM Lane V/C Ratio	0.031	-	-	0.14	0.066	0.007	-	-
HCM Control Delay (s)	7.4	0	-	10	10.4	7.3	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.5	0.2	0	-	-

Intersection	
Int Delay, s/veh	6.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	30	20	40	10	10	10	50	40	10	10	20	20
Future Vol, veh/h	30	20	40	10	10	10	50	40	10	10	20	20
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	33	22	44	11	11	11	55	44	11	11	22	22

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	234	231	42	252	237	53	52	0	0	58	0	0
Stage 1	63	63	-	163	163	-	-	-	-	-	-	-
Stage 2	171	168	-	89	74	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	721	669	1029	701	664	1014	1554	-	-	1546	-	-
Stage 1	948	842	-	839	763	-	-	-	-	-	-	-
Stage 2	831	759	-	918	833	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	675	633	1020	629	628	1011	1542	-	-	1542	-	-
Mov Cap-2 Maneuver	675	633	-	629	628	-	-	-	-	-	-	-
Stage 1	906	829	-	805	732	-	-	-	-	-	-	-
Stage 2	780	729	-	848	821	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.3	10.2	3.7	1.5
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1542	-	-	781	719	1542	-	-
HCM Lane V/C Ratio	0.036	-	-	0.127	0.046	0.007	-	-
HCM Control Delay (s)	7.4	0	-	10.3	10.2	7.4	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.4	0.1	0	-	-

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	90	70	10	60	30
Future Vol, veh/h	10	90	70	10	60	30
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	111	86	12	74	37
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.3	8.1	8
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	67%	0%	88%
Vol Thru, %	0%	10%	12%
Vol Right, %	33%	90%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	90	100	80
LT Vol	60	0	70
Through Vol	0	10	10
RT Vol	30	90	0
Lane Flow Rate	111	123	99
Geometry Grp	1	1	1
Degree of Util (X)	0.131	0.126	0.121
Departure Headway (Hd)	4.247	3.665	4.401
Convergence, Y/N	Yes	Yes	Yes
Cap	831	959	805
Service Time	2.339	1.758	2.48
HCM Lane V/C Ratio	0.134	0.128	0.123
HCM Control Delay	8	7.3	8.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.4	0.4	0.4

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	10	60	40	10	90	40
Future Vol, veh/h	10	60	40	10	90	40
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	12	70	47	12	105	47
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.2	7.9	8.1
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	69%	0%	80%
Vol Thru, %	0%	14%	20%
Vol Right, %	31%	86%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	130	70	50
LT Vol	90	0	40
Through Vol	0	10	10
RT Vol	40	60	0
Lane Flow Rate	151	81	58
Geometry Grp	1	1	1
Degree of Util (X)	0.173	0.084	0.071
Departure Headway (Hd)	4.127	3.729	4.423
Convergence, Y/N	Yes	Yes	Yes
Cap	862	943	799
Service Time	2.186	1.823	2.512
HCM Lane V/C Ratio	0.175	0.086	0.073
HCM Control Delay	8.1	7.2	7.9
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.6	0.3	0.2

Intersection	
Int Delay, s/veh	8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	30	50	10	10	50	50	10	10	10	120	20	40
Future Vol, veh/h	30	50	10	10	50	50	10	10	10	120	20	40
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	39	66	13	13	66	66	13	13	13	158	26	53

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	160	0	0	114	0	0	353	372	117	326	345	129
Stage 1	-	-	-	-	-	-	186	186	-	153	153	-
Stage 2	-	-	-	-	-	-	167	186	-	173	192	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1419	-	-	1475	-	-	602	558	935	627	578	921
Stage 1	-	-	-	-	-	-	816	746	-	849	771	-
Stage 2	-	-	-	-	-	-	835	746	-	829	742	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1381	-	-	1426	-	-	510	504	896	567	523	895
Mov Cap-2 Maneuver	-	-	-	-	-	-	510	504	-	567	523	-
Stage 1	-	-	-	-	-	-	765	700	-	801	742	-
Stage 2	-	-	-	-	-	-	749	718	-	771	696	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.6	0.7	11.5	14.6
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	593	1381	-	-	1426	-	-	611
HCM Lane V/C Ratio	0.067	0.029	-	-	0.009	-	-	0.388
HCM Control Delay (s)	11.5	7.7	0	-	7.5	0	-	14.6
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0.1	-	-	0	-	-	1.8

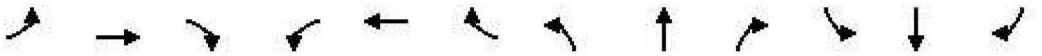
Intersection	
Int Delay, s/veh	5.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	10	20	40	100	10	10	10	80	10	30
Future Vol, veh/h	20	40	10	20	40	100	10	10	10	80	10	30
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	23	46	11	23	46	115	11	11	11	92	11	34

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	167	0	0	75	0	0	289	329	84	279	277	111
Stage 1	-	-	-	-	-	-	116	116	-	156	156	-
Stage 2	-	-	-	-	-	-	173	213	-	123	121	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1411	-	-	1524	-	-	663	590	975	673	631	942
Stage 1	-	-	-	-	-	-	889	800	-	846	769	-
Stage 2	-	-	-	-	-	-	829	726	-	881	796	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1403	-	-	1498	-	-	602	557	946	625	596	936
Mov Cap-2 Maneuver	-	-	-	-	-	-	602	557	-	625	596	-
Stage 1	-	-	-	-	-	-	859	773	-	827	751	-
Stage 2	-	-	-	-	-	-	772	709	-	832	769	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.2	0.9	10.7	11.6
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	665	1403	-	-	1498	-	-	679
HCM Lane V/C Ratio	0.052	0.016	-	-	0.015	-	-	0.203
HCM Control Delay (s)	10.7	7.6	0	-	7.4	0	-	11.6
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0.1	-	-	0	-	-	0.8



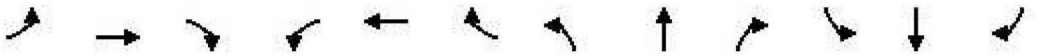
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	80	140	770	90	260	110	940	680	160	920	60
Future Volume (veh/h)	30	80	140	770	90	260	110	940	680	160	920	60
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.90	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	31	82	115	794	93	241	113	969	561	165	948	50
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	43	274	209	848	169	437	135	1825	548	187	1376	589
Arrive On Green	0.02	0.15	0.15	0.25	0.37	0.37	0.08	0.36	0.36	0.11	0.39	0.39
Sat Flow, veh/h	1781	1870	1424	3456	458	1187	1781	5106	1532	1781	3554	1522
Grp Volume(v), veh/h	31	82	115	794	0	334	113	969	561	165	948	50
Grp Sat Flow(s),veh/h/ln	1781	1870	1424	1728	0	1645	1781	1702	1532	1781	1777	1522
Q Serve(g_s), s	2.6	5.9	11.2	33.8	0.0	24.2	9.4	22.6	53.6	13.7	33.4	3.1
Cycle Q Clear(g_c), s	2.6	5.9	11.2	33.8	0.0	24.2	9.4	22.6	53.6	13.7	33.4	3.1
Prop In Lane	1.00		1.00	1.00		0.72	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	43	274	209	848	0	605	135	1825	548	187	1376	589
V/C Ratio(X)	0.72	0.30	0.55	0.94	0.00	0.55	0.84	0.53	1.02	0.88	0.69	0.08
Avail Cap(c_a), veh/h	81	324	247	919	0	648	165	1825	548	224	1376	589
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	72.7	57.1	59.4	55.4	0.0	37.6	68.4	38.2	48.2	66.2	38.4	29.1
Incr Delay (d2), s/veh	15.4	0.6	2.3	15.6	0.0	0.9	24.6	1.1	44.8	26.4	2.8	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	2.9	4.1	16.2	0.0	9.7	5.1	9.4	26.6	7.5	14.6	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	88.0	57.7	61.7	71.0	0.0	38.5	93.0	39.3	93.0	92.6	41.3	29.4
LnGrp LOS	F	E	E	E	A	D	F	D	F	F	D	C
Approach Vol, veh/h		228			1128			1643			1163	
Approach Delay, s/veh		63.8			61.4			61.3			48.0	
Approach LOS		E			E			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.9	59.4	41.9	27.8	16.4	63.9	8.7	61.0
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	18.9	43.4	39.9	26.0	13.9	48.4	6.8	59.1
Max Q Clear Time (g_c+I1), s	15.7	55.6	35.8	13.2	11.4	35.4	4.6	26.2
Green Ext Time (p_c), s	0.1	0.0	1.1	0.7	0.0	7.2	0.0	2.1

Intersection Summary	
HCM 6th Ctrl Delay	57.8
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	90	130	630	110	130	240	860	870	330	1110	70
Future Volume (veh/h)	70	90	130	630	110	130	240	860	870	330	1110	70
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.86	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	71	91	105	636	111	118	242	869	703	333	1121	57
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	90	296	216	574	224	238	255	1826	544	308	1375	594
Arrive On Green	0.05	0.16	0.16	0.17	0.27	0.27	0.14	0.36	0.36	0.17	0.39	0.39
Sat Flow, veh/h	1781	1870	1364	3456	816	867	1781	5106	1522	1781	3554	1536
Grp Volume(v), veh/h	71	91	105	636	0	229	242	869	703	333	1121	57
Grp Sat Flow(s),veh/h/ln	1781	1870	1364	1728	0	1683	1781	1702	1522	1781	1777	1536
Q Serve(g_s), s	5.9	6.5	10.5	24.9	0.0	17.1	20.2	19.8	53.6	25.9	42.4	3.5
Cycle Q Clear(g_c), s	5.9	6.5	10.5	24.9	0.0	17.1	20.2	19.8	53.6	25.9	42.4	3.5
Prop In Lane	1.00		1.00	1.00		0.52	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	90	296	216	574	0	462	255	1826	544	308	1375	594
V/C Ratio(X)	0.79	0.31	0.49	1.11	0.00	0.50	0.95	0.48	1.29	1.08	0.82	0.10
Avail Cap(c_a), veh/h	148	324	236	574	0	462	255	1826	544	308	1375	594
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	70.5	55.8	57.5	62.5	0.0	45.7	63.7	37.3	48.2	62.0	41.2	29.3
Incr Delay (d2), s/veh	11.1	0.6	1.7	71.0	0.0	0.8	41.9	0.9	144.4	75.1	5.4	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	3.1	3.7	16.4	0.0	7.2	12.0	8.2	41.5	17.8	18.9	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.5	56.4	59.2	133.5	0.0	46.6	105.6	38.2	192.6	137.2	46.6	29.6
LnGrp LOS	F	E	E	F	A	D	F	D	F	F	D	C
Approach Vol, veh/h		267			865			1814			1511	
Approach Delay, s/veh		64.2			110.5			107.0			65.9	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	31.0	59.4	30.0	29.6	26.6	63.8	12.6	46.9
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	25.9	51.4	24.9	26.0	21.5	55.8	12.5	38.4
Max Q Clear Time (g_c+I1), s	27.9	55.6	26.9	12.5	22.2	44.4	7.9	19.1
Green Ext Time (p_c), s	0.0	0.0	0.0	0.7	0.0	7.6	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	91.2
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.

Appendix L - LOS Calculation Worksheets – Horizon Year 2050 with Project Conditions

Intersection	
Int Delay, s/veh	6.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	20	62	10	20	10	48	20	10	10	30	20
Future Vol, veh/h	20	20	62	10	20	10	48	20	10	10	30	20
Conflicting Peds, #/hr	0	0	4	4	0	0	3	0	1	1	0	3
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	24	73	12	24	12	56	24	12	12	35	24

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	234	223	54	267	229	31	62	0	0	37	0	0
Stage 1	74	74	-	143	143	-	-	-	-	-	-	-
Stage 2	160	149	-	124	86	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	721	676	1013	686	671	1043	1541	-	-	1574	-	-
Stage 1	935	833	-	860	779	-	-	-	-	-	-	-
Stage 2	842	774	-	880	824	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	668	643	1006	595	638	1042	1537	-	-	1573	-	-
Mov Cap-2 Maneuver	668	643	-	595	638	-	-	-	-	-	-	-
Stage 1	898	824	-	827	749	-	-	-	-	-	-	-
Stage 2	777	745	-	784	815	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.1	10.6	4.6	1.2
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1537	-	-	831	693	1573	-	-
HCM Lane V/C Ratio	0.037	-	-	0.144	0.068	0.007	-	-
HCM Control Delay (s)	7.4	0	-	10.1	10.6	7.3	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.5	0.2	0	-	-

Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	30	20	49	10	10	10	54	40	10	10	20	20
Future Vol, veh/h	30	20	49	10	10	10	54	40	10	10	20	20
Conflicting Peds, #/hr	0	0	1	1	0	0	8	0	3	3	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	33	22	54	11	11	11	59	44	11	11	22	22

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	242	239	42	265	245	53	52	0	0	58	0	0
Stage 1	63	63	-	171	171	-	-	-	-	-	-	-
Stage 2	179	176	-	94	74	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	712	662	1029	688	657	1014	1554	-	-	1546	-	-
Stage 1	948	842	-	831	757	-	-	-	-	-	-	-
Stage 2	823	753	-	913	833	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	665	624	1020	610	620	1011	1542	-	-	1542	-	-
Mov Cap-2 Maneuver	665	624	-	610	620	-	-	-	-	-	-	-
Stage 1	903	829	-	795	724	-	-	-	-	-	-	-
Stage 2	770	721	-	835	821	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	10.3	10.3	3.9	1.5
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1542	-	-	791	707	1542	-	-
HCM Lane V/C Ratio	0.038	-	-	0.138	0.047	0.007	-	-
HCM Control Delay (s)	7.4	0	-	10.3	10.3	7.4	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.5	0.1	0	-	-

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	18	157	70	12	77	30
Future Vol, veh/h	18	157	70	12	77	30
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	22	194	86	15	95	37
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	8	8.3	8.5
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	72%	0%	85%
Vol Thru, %	0%	10%	15%
Vol Right, %	28%	90%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	107	175	82
LT Vol	77	0	70
Through Vol	0	18	12
RT Vol	30	157	0
Lane Flow Rate	132	216	101
Geometry Grp	1	1	1
Degree of Util (X)	0.168	0.23	0.13
Departure Headway (Hd)	4.572	3.83	4.628
Convergence, Y/N	Yes	Yes	Yes
Cap	786	940	776
Service Time	2.592	1.842	2.645
HCM Lane V/C Ratio	0.168	0.23	0.13
HCM Control Delay	8.5	8	8.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.6	0.9	0.4

Intersection	
Intersection Delay, s/veh	8.6
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	14	92	40	19	164	40
Future Vol, veh/h	14	92	40	19	164	40
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	107	47	22	191	47
Number of Lanes	1	0	0	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	1
HCM Control Delay	7.7	8.3	9.2
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1
Vol Left, %	80%	0%	68%
Vol Thru, %	0%	13%	32%
Vol Right, %	20%	87%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	204	106	59
LT Vol	164	0	40
Through Vol	0	14	19
RT Vol	40	92	0
Lane Flow Rate	237	123	69
Geometry Grp	1	1	1
Degree of Util (X)	0.291	0.139	0.091
Departure Headway (Hd)	4.418	4.053	4.758
Convergence, Y/N	Yes	Yes	Yes
Cap	818	886	755
Service Time	2.418	2.071	2.778
HCM Lane V/C Ratio	0.29	0.139	0.091
HCM Control Delay	9.2	7.7	8.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1.2	0.5	0.3

Intersection	
Int Delay, s/veh	10.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	30	50	10	10	50	65	10	12	10	179	28	40
Future Vol, veh/h	30	50	10	10	50	65	10	12	10	179	28	40
Conflicting Peds, #/hr	28	0	35	35	0	28	2	0	9	9	0	2
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	39	66	13	13	66	86	13	16	13	236	37	53

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	180	0	0	114	0	0	368	392	117	337	355	139
Stage 1	-	-	-	-	-	-	186	186	-	163	163	-
Stage 2	-	-	-	-	-	-	182	206	-	174	192	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1396	-	-	1475	-	-	588	544	935	617	571	909
Stage 1	-	-	-	-	-	-	816	746	-	839	763	-
Stage 2	-	-	-	-	-	-	820	731	-	828	742	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1359	-	-	1426	-	-	489	492	896	555	516	883
Mov Cap-2 Maneuver	-	-	-	-	-	-	489	492	-	555	516	-
Stage 1	-	-	-	-	-	-	765	700	-	792	735	-
Stage 2	-	-	-	-	-	-	724	704	-	767	696	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.6	0.6	11.8	18.6
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	571	1359	-	-	1426	-	-	585
HCM Lane V/C Ratio	0.074	0.029	-	-	0.009	-	-	0.556
HCM Control Delay (s)	11.8	7.7	0	-	7.5	0	-	18.6
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.2	0.1	-	-	0	-	-	3.4

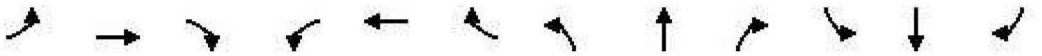
Intersection	
Int Delay, s/veh	5.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	40	10	20	40	164	10	19	10	108	14	30
Future Vol, veh/h	20	40	10	20	40	164	10	19	10	108	14	30
Conflicting Peds, #/hr	6	0	18	18	0	6	1	0	14	14	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	23	46	11	23	46	189	11	22	11	124	16	34

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	241	0	0	75	0	0	329	403	84	321	314	148
Stage 1	-	-	-	-	-	-	116	116	-	193	193	-
Stage 2	-	-	-	-	-	-	213	287	-	128	121	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1326	-	-	1524	-	-	624	536	975	632	601	899
Stage 1	-	-	-	-	-	-	889	800	-	809	741	-
Stage 2	-	-	-	-	-	-	789	674	-	876	796	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1318	-	-	1498	-	-	560	505	946	576	566	893
Mov Cap-2 Maneuver	-	-	-	-	-	-	560	505	-	576	566	-
Stage 1	-	-	-	-	-	-	858	772	-	790	723	-
Stage 2	-	-	-	-	-	-	728	658	-	815	768	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	2.2	0.7	11.6	13.1
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	590	1318	-	-	1498	-	-	618
HCM Lane V/C Ratio	0.076	0.017	-	-	0.015	-	-	0.283
HCM Control Delay (s)	11.6	7.8	0	-	7.4	0	-	13.1
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0.1	-	-	0	-	-	1.2



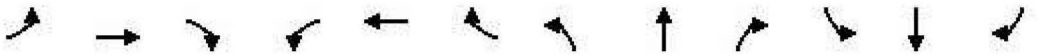
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	47	97	165	770	94	260	116	940	680	160	920	64
Future Volume (veh/h)	47	97	165	770	94	260	116	940	680	160	920	64
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.90	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	48	100	135	794	97	241	120	969	561	165	948	52
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	62	283	216	848	171	425	142	1801	540	187	1345	576
Arrive On Green	0.03	0.15	0.15	0.25	0.36	0.36	0.08	0.35	0.35	0.11	0.38	0.38
Sat Flow, veh/h	1781	1870	1429	3456	473	1175	1781	5106	1532	1781	3554	1522
Grp Volume(v), veh/h	48	100	135	794	0	338	120	969	561	165	948	52
Grp Sat Flow(s),veh/h/ln	1781	1870	1429	1728	0	1647	1781	1702	1532	1781	1777	1522
Q Serve(g_s), s	4.0	7.2	13.3	33.8	0.0	24.7	10.0	22.7	52.9	13.7	33.9	3.3
Cycle Q Clear(g_c), s	4.0	7.2	13.3	33.8	0.0	24.7	10.0	22.7	52.9	13.7	33.9	3.3
Prop In Lane	1.00		1.00	1.00		0.71	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	283	216	848	0	597	142	1801	540	187	1345	576
V/C Ratio(X)	0.78	0.35	0.62	0.94	0.00	0.57	0.85	0.54	1.04	0.88	0.71	0.09
Avail Cap(c_a), veh/h	81	324	248	919	0	649	165	1801	540	224	1345	576
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	71.8	57.1	59.7	55.4	0.0	38.4	68.1	38.8	48.5	66.2	39.5	30.0
Incr Delay (d2), s/veh	25.8	0.7	3.9	15.6	0.0	1.0	27.3	1.2	49.0	26.4	3.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	3.5	5.0	16.2	0.0	10.0	5.6	9.5	26.9	7.5	14.9	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	97.6	57.8	63.5	71.0	0.0	39.4	95.5	39.9	97.5	92.6	42.6	30.3
LnGrp LOS	F	E	E	E	A	D	F	D	F	F	D	C
Approach Vol, veh/h		283			1132			1650			1165	
Approach Delay, s/veh		67.3			61.6			63.5			49.2	
Approach LOS		E			E			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.9	58.7	41.9	28.5	17.0	62.6	10.3	60.1
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	18.9	43.4	39.9	26.0	13.9	48.4	6.8	59.1
Max Q Clear Time (g_c+I1), s	15.7	54.9	35.8	15.3	12.0	35.9	6.0	26.7
Green Ext Time (p_c), s	0.1	0.0	1.1	0.7	0.0	7.0	0.0	2.1

Intersection Summary	
HCM 6th Ctrl Delay	59.3
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	98	142	630	128	130	268	860	870	330	1110	88
Future Volume (veh/h)	78	98	142	630	128	130	268	860	870	330	1110	88
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.86	1.00		0.97	1.00		0.96	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	99	113	636	129	118	271	869	703	333	1121	71
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	99	298	218	587	243	222	255	1834	547	296	1357	587
Arrive On Green	0.06	0.16	0.16	0.17	0.27	0.27	0.14	0.36	0.36	0.17	0.38	0.38
Sat Flow, veh/h	1781	1870	1366	3456	886	810	1781	5106	1523	1781	3554	1536
Grp Volume(v), veh/h	79	99	113	636	0	247	271	869	703	333	1121	71
Grp Sat Flow(s),veh/h/ln	1781	1870	1366	1728	0	1696	1781	1702	1523	1781	1777	1536
Q Serve(g_s), s	6.6	7.0	11.4	25.5	0.0	18.6	21.5	19.7	53.9	24.9	42.7	4.5
Cycle Q Clear(g_c), s	6.6	7.0	11.4	25.5	0.0	18.6	21.5	19.7	53.9	24.9	42.7	4.5
Prop In Lane	1.00		1.00	1.00		0.48	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	99	298	218	587	0	465	255	1834	547	296	1357	587
V/C Ratio(X)	0.80	0.33	0.52	1.08	0.00	0.53	1.06	0.47	1.29	1.13	0.83	0.12
Avail Cap(c_a), veh/h	156	324	237	587	0	465	255	1834	547	296	1357	587
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	70.0	55.9	57.8	62.3	0.0	46.3	64.3	37.1	48.1	62.5	41.9	30.0
Incr Delay (d2), s/veh	11.4	0.6	1.9	61.5	0.0	1.2	73.5	0.9	141.9	90.8	5.9	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	3.4	4.0	16.0	0.0	7.9	14.8	8.2	41.3	18.4	19.1	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.4	56.6	59.7	123.7	0.0	47.4	137.7	38.0	189.9	153.3	47.7	30.5
LnGrp LOS	F	E	E	F	A	D	F	D	F	F	D	C
Approach Vol, veh/h		291			883			1843			1525	
Approach Delay, s/veh		64.5			102.4			110.6			70.0	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.0	59.7	30.6	29.7	26.6	63.1	13.4	46.9
Change Period (Y+Rc), s	5.1	5.8	5.1	5.8	5.1	5.8	5.1	5.8
Max Green Setting (Gmax), s	24.9	51.8	25.5	26.0	21.5	55.2	13.1	38.4
Max Q Clear Time (g_c+I1), s	26.9	55.9	27.5	13.4	23.5	44.7	8.6	20.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.8	0.0	7.1	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	92.4
HCM 6th LOS	F

Notes

User approved pedestrian interval to be less than phase max green.

Intersection	
Int Delay, s/veh	3.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	19	70	8	76	100	2
Future Vol, veh/h	19	70	8	76	100	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	76	9	83	109	2

Major/Minor	Minor2		Major2	
Conflicting Flow All	220	2	0	0
Stage 1	220	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	678	1082	-	-
Stage 1	721	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1082	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.6	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1082	-	-
HCM Lane V/C Ratio	0.084	-	-
HCM Control Delay (s)	8.6	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.3	-	-

Intersection	
Int Delay, s/veh	2.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	83	100	4	36	70	9
Future Vol, veh/h	83	100	4	36	70	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Stop	Stop	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	90	109	4	39	76	10

Major/Minor	Minor2		Major2	
Conflicting Flow All	162	10	0	0
Stage 1	162	-	-	-
Stage 2	0	-	-	-
Critical Hdwy	6.52	6.22	4.12	-
Critical Hdwy Stg 1	5.52	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	4.018	3.318	2.218	-
Pot Cap-1 Maneuver	730	1071	-	-
Stage 1	764	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %				-
Mov Cap-1 Maneuver	0	1071	-	-
Mov Cap-2 Maneuver	0	-	-	-
Stage 1	0	-	-	-
Stage 2	0	-	-	-

Approach	NB	SB
HCM Control Delay, s	8.5	
HCM LOS	A	

Minor Lane/Major Mvmt	NBLn1	SBL	SBT
Capacity (veh/h)	1071	-	-
HCM Lane V/C Ratio	0.041	-	-
HCM Control Delay (s)	8.5	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-

Appendix M
Water Service Analysis

DEXTER WILSON ENGINEERING, INC.

WATER • WASTEWATER • RECYCLED WATER

CONSULTING ENGINEERS

WATER SYSTEM ANALYSIS FOR THE PACIFICA PROJECT IN THE CITY OF OCEANSIDE

June 20, 2023

2234 FARADAY AVENUE • CARLSBAD, CA • (760) 438-4422

WATER SYSTEM ANALYSIS
FOR THE PACIFICA PROJECT
IN THE CITY OF OCEANSIDE

June 20, 2023

6-20-2023

Prepared by:

Dexter Wilson Engineering, Inc.
2234 Faraday Avenue
Carlsbad, CA 92008
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Job No. 1043-002

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DEXTER WILSON ENGINEERING, INC.

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June 20, 2023 1043-002

MLC Holdings, Inc.
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

Attention: Johanna Crooker, Director of Forward Planning

Subject: Water System Analysis for the Pacifica Project in the City of Oceanside

Introduction and Purpose

The Pacifica project is located in the City of Oceanside southwest of Monica Circle/Macario Drive and west of Roja Drive. Access to the project is from Monica Circle/Macario Drive and Malaga Drive. Water service for the Pacifica project will be provided by the City of Oceanside.

The proposed Pacifica project is a residential development on an approximately 14.55-acre parcel (APN 157-070-42 and 122-190-19). It is situated within a previous elementary school site. The proposed project would develop 164 townhome residential units. Finished floor elevations within the project range from a low of 97 feet to a high of 105 feet in elevation.

The purpose of this letter-report is to analyze the existing and proposed public and private water systems for the Pacifica project and determine if there are any hydraulic deficiencies created by the proposed development of this property.

A Vicinity Map for the project is shown on Figure 1 and a preliminary site plan for the project is included in Appendix A.

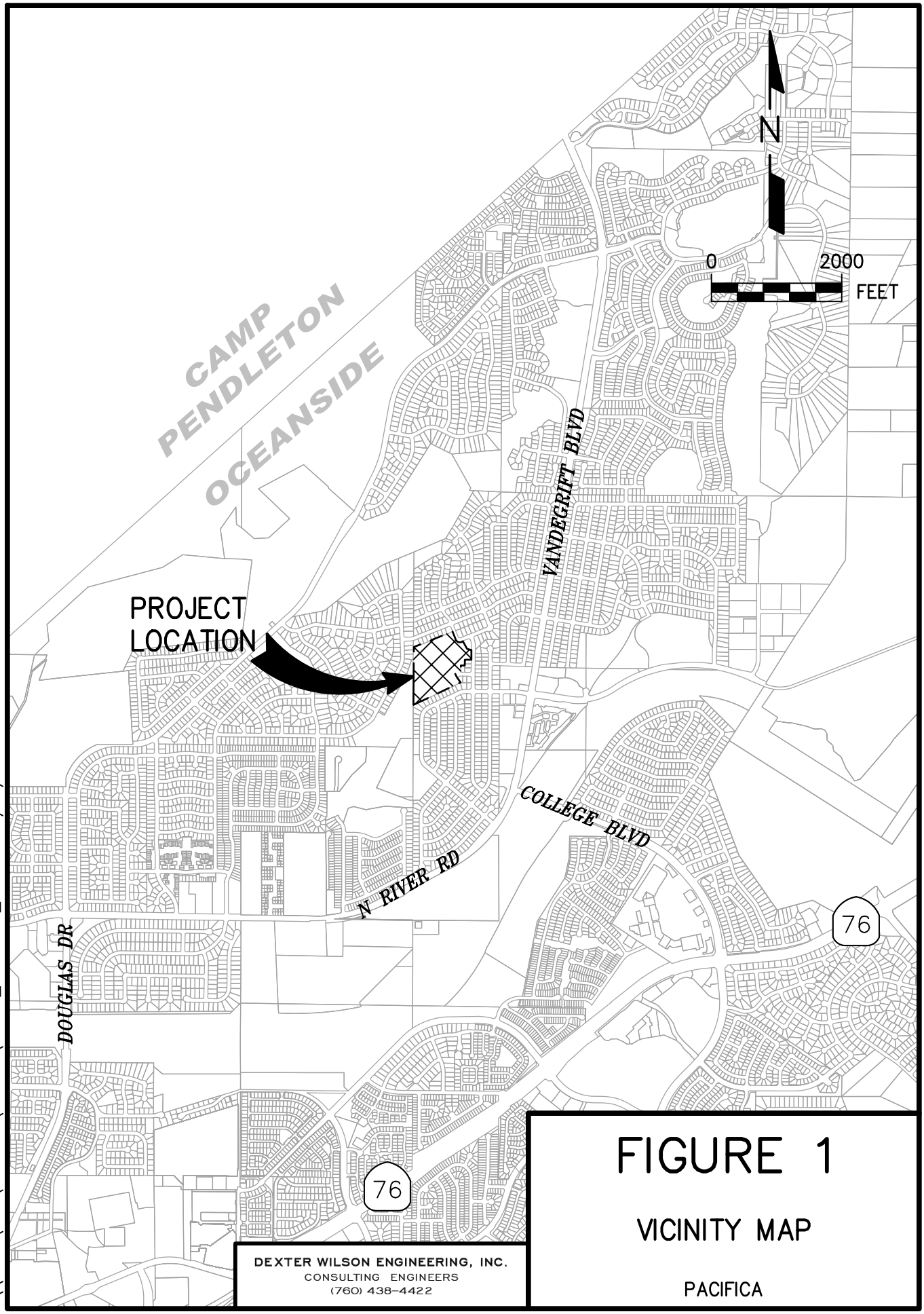
Water System Design Criteria

Water system design criteria such as estimating potable water demands and evaluating the capacity of transmission and distribution pipes are based on the City of Oceanside Water Utilities Department, Water, Sewer, and Reclaimed Water Design & Construction Manual, August 2017, Section 2, Potable Water Systems Design Guidelines (Design & Construction Manual). Based on the design manual, domestic average day water demands are determined using land use acreage and an associated water demand factor. A copy of the pertinent sections in the City's Manual where the design criteria is located is attached as Appendix B.

The water demand rates are presented in Table 1.

TABLE 1
PACIFICA PROJECT
AVERAGE DAILY WATER DEMAND FACTORS

Land Use	Gallons Per Day Per Acre
Residential (1-2 DU/ac)	1,200
Residential. (2-4 DU/ac)	2,100
Residential (4-8 DU/ac)	2,400
Residential (8-12 DU/ac)	2,500
Residential (12-15 DU/ac)	2,800
Residential (15-20 DU/ac)	3,200
Residential (20-30 DU/ac)	4,100
Agricultural	1,750
Industrial	2,000
Open Space	1,300
Commercial	1,850
Institutional	1,675



\\ARTIC\DWG\1043002\REPORT\PWSSA_FIGURE-1_VM.DWG 3/17/2023 10:17:37 AM LAYOUT:8x11 USER:Donald

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
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FIGURE 1

VICINITY MAP

PACIFICA

During maximum day demands, the public water system must maintain a minimum residual pressure of 45 psi. During peak hour demands, the public water system must maintain a minimum residual pressure of 35 psi. Residual pressure under maximum day demands plus fire flow must be greater than 20 psi.

Pipeline velocity must not exceed 7.5 feet per second (fps) under maximum domestic demands (no fire flow). For fire flow conditions, velocities shall not exceed 15 fps for less than 12-inch diameter existing mains, and velocities shall not exceed 10 fps for 12-inch diameter existing mains and above.

Potable Water Demands

The estimated water demand for the project is calculated using the water use factors based on density presented in the City's Design and Construction Manual. The density is calculated based on the City's definition of Gross Developable Area which equates to 12.82 acres for the Pacifica site resulting in a density of 12.79 du/ac. The dwelling unit density for the Pacifica project is shown below in Table 2.

TABLE 2
RESIDENTIAL DENSITY FOR THE PACIFICA PROJECT

Dwelling Units	Gross Developable Area (acres)	Density, DU/acre
164	12.82	12.79

The dwelling unit density corresponds to a water demand factor of 2,800 gpd per acre for the Pacifica project. The total estimated average water demand for the Pacifica project is calculated in Table 3.

TABLE 3
WATER DEMAND FOR THE PACIFICA PROJECT

Land Use	Water Demand Factor (gpd/acre)	Gross Developable Area (acres)	Average Water Demand, gpd
Residential	2,800	12.82	35,896

The maximum day demands are 2 times the average and peak hour demands are 3 times the average according to the City's Design and Construction Manual. This corresponds to 71,792 gpd (50 gpm) and 107,688 gpd (75 gpm) respectively.

Fire Flows

The fire flow requirement for the project site was estimated based on the 2019 California Fire Code. The fire code takes into account building area and construction type. The largest building proposed for the project site is estimated to be 13,152 square feet. Construction Type V-B is proposed for the onsite buildings. This results in an estimated fire flow requirement of 3,000 gpm. After the expected reduction of 50% for an NFPA approved fire sprinkler system, the estimated final fire flow requirement for the project site equates to 1,500 gpm. The excerpt from the 2019 California Fire Code pertaining to fire flow requirements and project information on building area and construction type are shown in Appendix D.

Available Water System Pressure

Water service to the project will be from the Talone 320 Pressure Zone of the City's public water system**.** Finished floor elevations on the Pacifica property range between 97 feet and 105 feet. This results in a maximum static water pressure range of 93 psi to 97 psi on the project site. The expected maximum working pressure behind/downstream of the meter and backflow preventer will be approximately between 78 to 82 psi.

Existing Water System

The Pacifica project is located in an area of the City of Oceanside that is well developed. Existing water facilities in the vicinity of the project include 6-inch diameter water lines in Monica Circle and 8-inch diameter water lines in Malaga Drive, Macario Drive, and Roja Drive. These lines are served by the City's Talone 320 Pressure Zone.

Figure 2 shows the existing water lines in the vicinity of the Pacifica project.

Proposed Offsite Water Facilities

The water service in the area of the Pacifica project is being supplied by the 320 Zone water system. From a service pressure standpoint, connecting the Pacifica project to this system will provide adequate service. As described in a previous section, the range of pad elevations on the project results in a minimum static water pressure of 93 psi.

The proposed water system for the Pacifica project consists of making connections for its proposed private water system at two locations. A domestic water meter and fire protection system connection will be made at two locations. Additionally, the project will be upsizing the existing 6-inch diameter water lines in the Monica Circle and Macario Drive intersection to 8-inch diameter water lines in order to meet the City's current design standards.

The Pacifica project's proposed onsite water system will consist of private water lines via a private domestic and fire protection system.

LEGEND

PROJECT BOUNDARY

EXISTING PUBLIC WATER LINE 320 ZONE

PROJECT LOCATION

DOUGLAS DR
EX.14"
CONCHO PL
ANN ST
PARKER ST
MICHAEL ST
EX.10"
EX.18"
EX.12"
ARTHUR AVE
EX.10"
CHARLES DR
FLORA DR
LENORE ST
EX.10"
FRANCIS ST
BARRY ST
EX.10"
CARILLO CIR
MONICA CIR
ROJA ST
CLAIRE DR
ELAINE AVE
EX.18"
EX.10"
STEPHANIE PL
EX.8"
CARDIFF BAY DR
EX.8"
EX.6"
EX.8"
MACARIO DR
GOLD DR
EX.10"
VANDEGRIFT BLVD
GOLD DR
MOONSTONE BAY DR
EX.8"
MARBLEHEAD BAY DR
EX.8"
SOL DR
EX.8"
EX.8"
EX.8"
MALAGA DR
EX.8"
N REDONDO DR
EX.10"
EX.18"
EX.10"
N REDONDO DR
EX.8"
EX.14"
N RIVER RD
VERDE DR
EX.8"
SIESTA DR
EX.8"
ROJA DR
EX.8"
LUNA DR
EX.8"
EX.14"
EX.18"
EX.14"

N

0 400 FEET

\\ARTIC\DWG\1043002\REPORT\PWSSA_WTR_FIGURE-2_EXWTR.DWG 6/20/2023 8:47:53 AM LAYOUT:11x17 USER:Karam

FIGURE 2

EXISTING WATER FACILITIES

PACIFICA

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

Private Water System

Per the City's requirement, the onsite water system for Pacifica will be private. Two connections will be made for both domestic service and fire protection service to the project site. Domestic and fire connections will be made at the Monica Circle/Macario Drive intersection and domestic and fire connections will be made at the western terminus of Malaga Drive. Both the project's private domestic water system and private fire protection system will be connected at each location.

Figure 3 shows the proposed water system for the Pacifica project. Reference information surrounding the proposed private water systems for Pacifica are included in Appendix C.

Domestic Meter and Service. The preliminary water fixture count (WFU) for the proposed townhome units are estimated to be 30 to 35 WFUs per unit. Based on a WFU count of between 30 and 35 fixture units per home, the design demand for water meter sizing is estimated to be between 590 and 650 gpm for the entire project.

Based on the meter capacities established in AWWA C700-20 and listed by City's Water Utilities Department, the Pacifica project will require two 3-inch meters, with a 700 gpm total capacity, that shall be constructed per City of Oceanside Standard Drawing W-4. The final sizing of the service laterals and meters will need to be confirmed once the fixture units for each home are finalized.

Private Fire Protection Service. The private fire protection system will consist of two double check detector assembly (DCDA) backflow preventers at each connection point and 8-inch diameter water lines throughout the project. The 8-inch diameter private fire protection system will sufficiently convey the projected 1,500 gpm fire flow requirement. This was confirmed by a hydraulic computer model that is presented in the next section of this water study.

LEGEND

PROJECT BOUNDARY

EXISTING PUBLIC WATER LINE

PROPOSED PUBLIC WATER LINE

PROPOSED PRIVATE DOMESTIC WATER SYSTEM

PROPOSED PRIVATE FIRE PROTECTION SYSTEM

PROPOSED PRIVATE FIRE HYDRANT

PROPOSED WATER METER

PROPOSED BACKFLOW PREVENTER

N

0 150 FEET

CLAIRE DR

MONICA CIR

MACARIO DR

MALAGA DR

SOL DR

LUNA DR

GOLD DR

N REDONDO DR

ROJA DR

MARBLEHEAD BAY DR

EX.8"

8"

3" DOMESTIC METER AND BACKFLOW PREVENTER

8" BACKFLOW PREVENTER

8" BACKFLOW PREVENTER

3" DOMESTIC METER AND BACKFLOW PREVENTER

2" WATER SERVICE TO SEWER LIFT STATION

PVT DR "A"

PVT DR "B"

PVT DR "C"

PVT DR "D"

PVT DR "E"

PVT DR "F"

PVT DR "G"

PVT DR "H"

PVT DR "I"

PVT DR "J"

PVT DR "K"

PVT DR "L"

PVT DR "M"

4"

6"

8"

FIGURE 3

EXISTING AND PROPOSED WATER FACILITIES

PACIFICA

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

\\ARTIC\DWG\1043002\REPORT\PWSSA_WTR_FIGURE-3_PROWTR.DWG 6/20/2023 8:52:03 AM LAYOUT:11x17 USER:Karam

Computer Model for System Analysis

To analyze the existing and proposed water systems for the Pacifica project, a water system hydraulic computer model was generated for the pertinent proposed piping in the vicinity of the project. This hydraulic computer model included the public water system piping adjacent to the Pacifica project as well as the proposed onsite piping. Several water demand scenarios were modeled which provided data upon which the recommended pipe sizing is based.

Available Hydraulic Grade Line. As mentioned earlier in this report, the source of water in the vicinity of the Pacifica project is the 320 Zone with the Talone and Pilgrim Creek Reservoirs being nearest to the project site. According to the City's Water Master Plan and atlas maps the 320 foot hydraulic grade line (HGL) is the high water line of the reservoir. There are 18-inch diameter transmission lines that carry the water from these reservoirs to the North Redondo Drive and North River Road intersection; hence the source node for the hydraulic computer model was modeled near this intersection. The available HGL was conservatively estimated to be approximately 285 feet (reservoir floor) during domestic and fire flow scenarios for the proposed project.

Water System Computer Model. Analysis using the KYPIPE computer software program developed by the University of Kentucky determined residual pressures throughout the water system. This computer software utilizes the Hazen-Williams equation for determining headloss in pipes. The Hazen-Williams "C" value used for all pipe sizes in our analysis is 120.

Fitting and Valve Losses. To simulate minor losses through pipe fittings and valves, minor loss coefficients or "k" values for all fittings associated with pipes were included in the hydraulic model.

Meter and Backflow Assembly Losses. The pressure loss through the proposed meters and backflow preventers was incorporated into the computer model. Appendix C presents candidate DCDA and RP backflow preventers. The manufacturer's literature includes charts which show pressure loss through the backflow preventer as a function of flow. These charts were used to incorporate the pressure losses reflected in the computer modeling.

Computer Model Analysis – Domestic Water System

Computer modeling of the proposed onsite private domestic system and existing offsite water system for the Pacifica project was performed to confirm the pipe sizes necessary to provide adequate domestic service. The water system was analyzed under two scenarios: average day demand and peak hour demand.

Appendix E provides the results of the computer modeling for the analyzed water system. Exhibit A at the back of Appendix E provides the Node and Pipe Diagram for the computer model.

The results in Appendix E show that the proposed water system for the Pacifica project is adequate for domestic service. The results of the computer model show that average day demand can be achieved onsite with a minimum residual pressure of 61 psi and that peak hour demand can be achieved onsite with a minimum residual pressure of 60 psi.

Computer Model Analysis – Fire Protection System

Computer modeling of the proposed onsite private fire protection system and existing offsite water system for the Pacifica project was performed to confirm the pipe sizes necessary to provide adequate fire protection service. The water system was analyzed under two maximum day demand plus 1,500 gpm scenarios.

Appendix F provides the results of the computer modeling for the analyzed water system. Exhibit B at the back of Appendix F provides the Node and Pipe Diagram for the computer model.

The results in Appendix F show that the proposed water system for the Pacifica project is adequate for fire protection. The results of the computer model show that a 1,500 gpm fire flow can be provided onsite with a minimum residual pressure of 45 psi.

Conclusions and Recommendations

The following recommendations and conclusions are made based on the water system analyses performed for the Pacifica project.

1. The Pacifica project will be supplied from the Talone 320 Pressure Zone system. Maximum static water pressure will be 97 psi. Maximum working pressure in the private system will be 82 psi.

2. Figure 2 in this report presents the existing water system surrounding the Pacifica project.

3. Public water system connections for the Pacifica project will be made to the existing 8-inch diameter water line at the western end of Malaga Drive as well as the proposed 8-inch diameter water line in the Monica Circle and Macario Drive intersection.

4. The proposed Pacifica development will be served by onsite private water systems stemming off the proposed 8-inch diameter water lines.

5. The Pacifica project will require two 3-inch meters that shall be constructed per City of Oceanside Standard Drawing W-4.

6. Offsite water improvements for the Pacifica project include upsizing existing 6-inch diameter water lines in the Monica Circle and Macario Drive intersection to 8-inch diameter water lines in order to meet the City's current design standards.

7. The fire flow requirement is estimated based on the 2019 California Fire Code. The fire code takes into account building area and construction type which results in a 1,500 gpm fire flow requirement for Pacifica.

8. Figure 3 in this report presents the proposed water system for the Pacifica project.

9. Individual pressure regulators for all building services within the Pacifica project are required to limit building service pressures to 80 psi in accordance with the Uniform Plumbing Code and City of Oceanside standards.

10. For PVC pipe to be used for public water lines within the project, we recommend the piping specification to be AWWA C900 DR-18 Class 235.

Thank you for the opportunity to prepare this report. If you have any questions on the enclosed information, please do not hesitate to call.

Dexter Wilson Engineering, Inc.

Steven Henderson, P.E.

SH:NF:ru:ah

Attachments

APPENDIX A

PRELIMINARY SITE PLAN

NEED TWO STEPS IN BLDG B/C 3' DRIVEWAYS & 5' END DRIVEWAY

SEWER & SD CROSSINGS

MONICA CIR.

MACARIO DR.

ROJA DRIVE

MALAGA DRIVE

PVT. DRIVE "A"

PVT. DRIVE "B"

PVT. DRIVE "C"

PVT. DRIVE "D"

PVT. DRIVE "E"

PROJECT BOUNDARY

FEMA 500 YEAR FLOOD ZONE X
FIRM PANEL #488
EFFECTIVE DATE: 5/16/2012

BASIN BOTTOM AREA = 9,164 SF

BASIN BOTTOM AREA = 9,100 SF
TOP OF BASIN ELEV. = 94.0
BASIN BOTTOM ELEV. = 88.0

EXISTING STORM GRATE WITH FL OF 88.98 TO REMAIN. PROPOSED CONNECTION TO DOWNSTREAM CLEANOUT WITH FL OF 83.3

PUBLIC SEWER LIFT STATION. PUBLIC ACCESS & UTILITY ESMT.

PROP. 20' UTILITY & ACCESS ESMT.

PROP. PUBLIC ACCESS & UTILITY ESMT.

6" WATER IN THIS SEGMENT OF PVT. DRIVE "D"

EXIST. 6" ACP WATER

EXIST. STREET LIGHT TO REMAIN

CONNECT TO EXIST. 8" WATER MAIN

CONNECT TO EXIST. STREET IMPROVEMENTS

PROP. CURB & GUTTER AND SIDEWALK

EXIST. SPEED BUMP TO REMAIN

REPLACE EXIST. 8" WATER MAIN WITH 8" PVC MAIN

REPLACE EXIST. CROSS GUTTER

CONNECT TO EX. 24" STORM DRAIN

EXIST. 8" ACP SEWER

EXIST. 8" ACP FORCE MAIN

EXIST. 8" ACP WATER

CONNECT TO EXIST. 8" WATER MAIN

REPLACE EXIST. 8" WATER MAIN WITH 8" PVC MAIN

RECONSTRUCT EXISTING PED RAMPS AND REPAINT CROSSWALK

CROSSING WALL TO REMAIN

EXIST. INLET TO BE REMOVED

24" FILTERRA UNIT

EXIST. MANHOLE TO BE REMOVED

EXIST. 8" VCP SEWER TO REMAIN

EXIST. 8" ACP WATER

CONNECT TO EXIST. CURB

CONNECT TO EXIST. SEWER, 121.28±

END OF PUBLIC MALAGA DRIVE

PROP. EMERGENCY GATE

CONNECT TO EXIST. CURB

EXIST. 8" VCP SEWER TO REMAIN

EXIST. 8" ACP WATER

EXIST. STREET LIGHT TO REMAIN

EXIST. 8" ACP WATER

EXIST. 8" ACP SEWER

APPENDIX B

CITY OF OCEANSIDE DESIGN CRITERIA

2. Pressure Regulating Stations
3. Pressure Relief Stations
4. Reservoirs
5. Wells

H. Demands:

1. Average daily water demands shall be:

LAND USE CATEGORY	GALLONS PER DAY/PER ACRE
Single Family Res. (1-2 DU/ac)	1,200
Single Family Res. (2-4 DU/ac)	2,100
Single Family Res. (4-8 DU/ac)	2,400
Single Family Res. (8-12 DU/ac)	2,500
Single Family Res. (12-15 DU/ac)	2,800
Single Family Res. (15-20 DU/ac)	3,200
Single Family Res. (20-30 DU/ac)	4,100
Agricultural Acres	1,750
Industrial Acres	2,000
Open Space Acres	1,300
Commercial Acres	1,850
Institutional Acres	1,675

DU – Dwelling Unit

2. Peak Factors:

a. Average Daily Demand ADD = 1.00
b. Maximum Daily Demand MDD = 2.0*ADD
c. Peak Hourly Demand PHD = 3.0*ADD

2.2 FIRE FLOWS

The City of Oceanside currently utilizes the latest edition California Fire Code (CFC) requirements for determining fire flow requirements for buildings. The latest edition CFC incorporates many factors in determining fire flows, such as building construction type, building square footage, and fire protection systems. Several factors are combined to determine the minimum required fire flow requirements.

Although General Guidelines contained in Table 2.1 represent typical fire flows for various land use categories, minimum fire flow calculations are governed by the latest edition CFC, Section 507, for each specific building type and construction.

The typical fire flow for the different land use categories are shown in the following Table. All fire flows are measured with a 20-PSI Residual Pressure.

TABLE 2.1: General Fire Flow Guidelines

Land Use Classifications	Design Fire Flow (GPM)	Duration (HOURS)	Residual Pressure (PSI)
Residential - Single Family	1500	2	20
Residential - Multi-Family	3000	2	20
Commercial	4000	4	20
Industrial	4000	4	20
Governmental - Institutional	4000	4	20

All new developments that are required to have a fire suppression system shall have the system approved by the Fire Marshall. Sprinkler calculations shall be provided to the Fire Department for review and to verify the fire service connection and backflow assembly is properly sized.

2.3 PRESSURES

A. Minimum residual pressure shall be 20 PSI at design fire flow plus maximum day domestic demand.

B. Minimum residual pressure shall be 35 PSI at peak hour domestic demand.

C. Minimum residual pressure shall be 45 PSI at peak day.

D. When static pressures exceed 80 PSI at property line, pressure-reducing valves will be required at the building. The pressure regulator shall be Class 150 or greater.

E. All new single-family residential water service in each pressure zone shall be provided with a minimum static pressure of 50 PSI at the water meter.

2.4 MAINS

A. Minimum diameter shall be 8 inches.

B. All mains not meeting the minimum main diameter and material requirements shall be replaced to meet current design standards. This is applicable for all new commercial, industrial, institutional, and residential developments of four (4) units or more. Where the full replacement length along the frontage property is deemed in excess of the overall project cost, the developer may pay an in-lieu fee upon the approval of the Water Utilities Director.

C. All lines are to be looped.

D. Minimum depth of cover required:

1. 36 inches for 12-inch mains and smaller.

2. Mains over 12 inches require special design.

E. Design shall be based on maximum day requirements plus fire flow. Maximum velocity shall be 7.5 FPS not including fire flow.

F. For fire flow conditions, velocities shall not exceed 15 FPS for less than 12-inch existing mains, and velocities shall not exceed 10 FPS for 12-inch existing mains and above. For new mains, velocities shall not exceed 10 FPS with the fire flow demand flowing through one hydrant.

G. Thrust blocks shall be installed in accordance with Standard Drawing W-27. When water pressures exceed 200 PSI and/or soil-bearing pressures are less than 2000 PSF a special design shall be required by a Registered Civil/Structural Engineer.

H. All mains shall be shown in profile on the improvement plans.

I. All water mains not located within the Public right-of-way shall be provided with a minimum 20-foot wide water easement. In some cases, a wider easement may be required, as determined by the Water Utilities Director.

J. Where water and sewer mains are located within the same easement, the minimum easement size shall be 30 feet wide.

K. Easements shall be easily accessible to City maintenance equipment. Access shall be unobstructed with all-weather driveways and capable of withstanding a 40 ton load.

L. No trees, plantings, fences, structures, or building overhang shall be located within City easements.

M. Homeowners who purchase property containing a City easement will be responsible for the maintenance of that easement property.

N. No building foundations will be allowed within 10 feet of the outside edge of a City easement.

O. The shortest pipe length shall be no less than 6 linear feet.

2.5 VALVES

A. Maximum valve spacing:

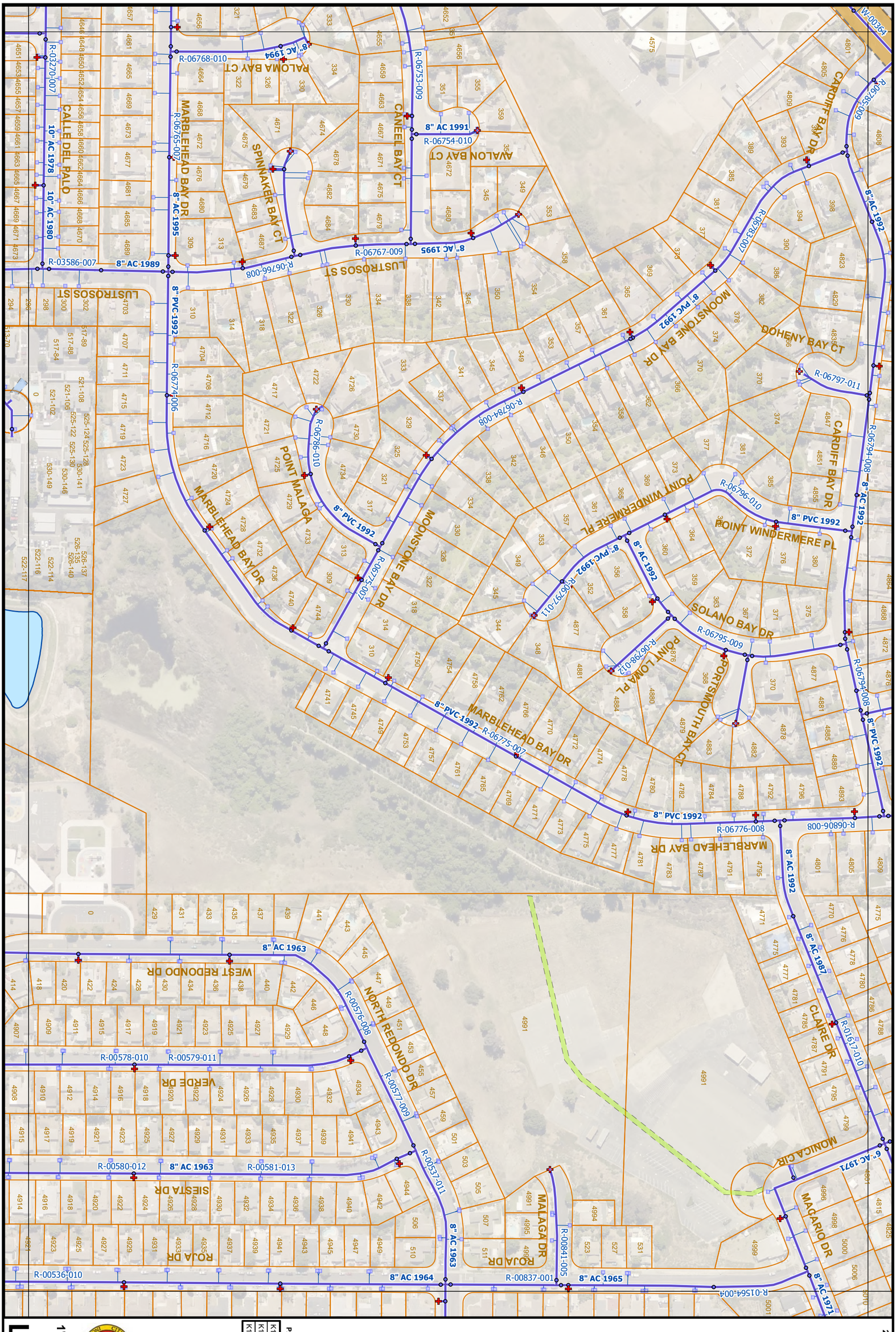
1. 500 feet in residential areas and high-point areas.

2. 1,000 feet on arteries and secondary feeders, supply lines and combination arteries and supply lines.

B. Valve locations: as required by the Water Utilities Director.

C. Butterfly Valves shall conform to the “Standard for Rubber Seated Butterfly Valves”, per AWWA C-504, as last revised and shall be tested and certified with the valve actuator installed on the valve.

D. Gate Valves sizes 3 inches through 12 inches shall conform to the “Standard for Resilient Wedge Gate Valves for Water and Sewerage Systems”, per AWWA C-509, and C-550 for Interior Epoxy coating, and C-110 for Ductile Iron 250 PSI, latest revision. Gate valves shall be as described in Section 2.12.



L12

1" = 200'

N

K11	L11	M11
K12	L12	M12
K13	L13	M13

PAGE INDEX

Water Atlas Map No. L12

- THIS MAP PREPARED SOLELY FOR ILLUSTRATION PURPOSE & IS NOT TO BE RELIED UPON FOR ENGINEERING DRAWINGS.
- SOME INFORMATION MAY NOT BE ACCURATE.

2/4/2022

2/4/2022

- THIS MAP PREPARED SOLELY FOR ILLUSTRATION PURPOSE & IS NOT TO BE RELIED UPON FOR ENGINEERING DRAWINGS.
- SOME INFORMATION MAY NOT BE ACCURATE.

Water Atlas Map No. M12

PAGE INDEX

L11	M11	N11
L12	M12	N12
L13	M13	N13

N

1" = 200'

M12

APPENDIX C

PRIVATE WATER REFERENCE

APPENDIX A

RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM

The provisions contained in this appendix are not mandatory unless specifically adopted by a state agency, or referenced in the adopting ordinance.

A 101.0 General.

A 101.1 Applicability. This appendix provides a general procedure for sizing a water supply system. Because of the variable conditions encountered, it is impractical to lay down definite detailed rules of procedure for determining the sizes of water supply pipes in an appendix, which shall necessarily be limited in length. For an adequate understanding of the problems involved, refer to Water-Distributing Systems for Buildings, Report BMS 79 of the National Bureau of Standards; and Plumbing Manual, Report BMS 66, also published by the National Bureau of Standards.

A 102.0 Preliminary Information.

A 102.1 Daily Service Pressure. Obtain the necessary information regarding the minimum daily service pressure in the area where the building is to be located.

A 102.2 Water Meter. Where the building supply is to be metered, obtain information regarding friction loss relative to the rate of flow of meters in the range of sizes likely to be used. Friction-loss data is capable of being obtained from most manufacturers of water meters. Friction losses for disk-type meters shall be permitted to be obtained from Chart A 102.2.

A 102.3 Local Information. Obtain available local information regarding the use of different kinds of pipe with respect both to durability and to decrease in capacity with the length of service in the particular water supply.

A 103.0 Demand Load.

A 103.1 Supply Demand. Estimate the supply demand for the building main, the principal branches and risers of the system by totaling the fixture units on each, Table A 103.1, and then by reading the corresponding ordinate from Chart A 103.1(1) or Chart A 103.1(2), whichever is applicable.

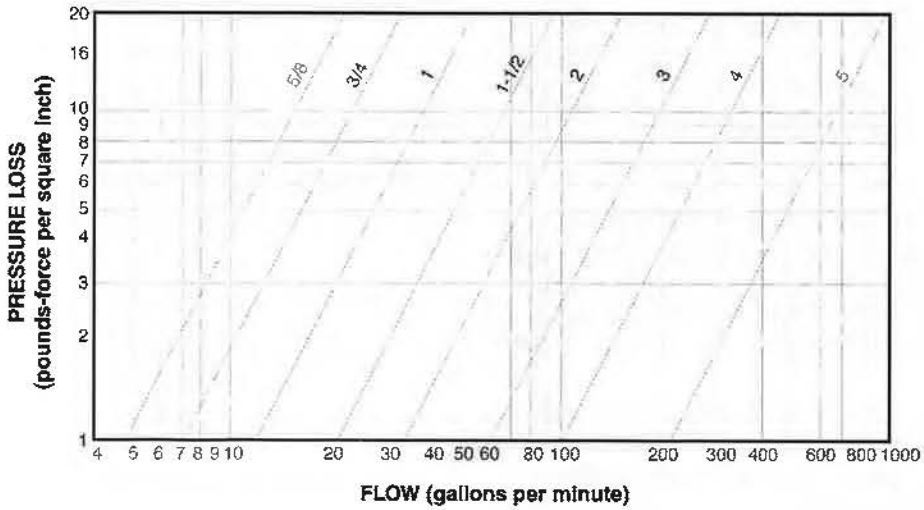
A 103.2 Continuous Supply Demand. Estimate continuous supply demands in gallons per minute (gpm) (L/s) for lawn sprinklers, air conditioners, etc., and add the sum to the total demand for fixtures. The result is the estimated supply demand of the building supply.

A 104.0 Permissible Friction Loss.

A 104.1 Residual Pressure. Decide what is the desirable minimum residual pressure that shall be maintained at the highest fixture in the supply system. Where the highest group of fixtures contains flushometer valves, the residual pressure for the group shall be not less than 15 pounds-force per square inch (psi) (103 kPa). For flush tank supplies, the available residual pressure shall be not less than 8 psi (55 kPa).

A 104.2 Elevation. Determine the elevation of the highest fixture or group of fixtures above the water (street) main. Multiply this difference in elevation by 0.43. The result is the loss of static pressure in psi (kPa).

CHART A 102.2
FRICTION LOSSES FOR DISK-TYPE WATER METERS



For SI units: 1 inch = 25 mm, 1 pound-force per square inch = 6.8947 kPa, 1 gallon per minute = 0.06 L/s

A 104.3 Available Pressure. Subtract the sum of loss in static pressure and the residual pressure to be maintained at the highest fixture from the average minimum daily service pressure. The result will be the pressure available for friction loss in the supply pipes, where no water meter is used. Where a meter is to be installed, the friction loss in the meter for the estimated maximum demand should also be subtracted from the service pressure to determine the pressure loss available for friction loss in the supply pipes.

A 104.4 Developed Length. Determine the developed length of pipe from the water (street) main to the highest fixture. Where close estimates are desired, compute with the aid of Table A 104.4(1), Table A 104.4(2), or Table A 104.4(3), whichever is applicable, the equivalent length of pipe for fittings in the line from the water (street) main to the highest fixture and add the sum to the developed length. The pressure available for friction loss in psi (kPa), divided by the developed lengths of pipe from the water (street) main to the highest fixture, times 100, will be the average permissible friction loss per 100 feet (30 480 mm) length of pipe.

A 105.0 Size of Building Supply.

A 105.1 Diameter. Knowing the permissible friction loss per 100 feet (30 480 mm) of pipe and the total demand, the diameter of the building supply pipe shall be permitted to be obtained from Chart A 105.1(1), Chart A 105.1(2), Chart A 105.1(3), Chart A 105.1(4) Chart A 105.1(5), Chart A 105.1(6), or Chart A 105.1(7), whichever is applicable. The diameter of pipe on or next above the coordinate point corresponding to the estimated total demand and the permissible friction loss will be the size needed up to the first branch from the building supply pipe.

A 105.2 Copper and Copper Alloy Piping. Where copper tubing or copper alloy pipe is to be used for the supply piping and where the character of the water is such that slight changes in the hydraulic characteristics are expected, Chart A 105.1(1) shall be permitted to be used.

A 105.3 Hard Water. Chart A 105.1(2) shall be used for ferrous pipe with the most favorable water supply in regards to corrosion and caking. Where the water is hard or corrosive, Chart A 105.1(3) or Chart A 105.1(4) will be applicable. For extremely hard water, it will be advisable to make additional allowances for the reduction of the capacity of hot-water lines in service.

A 106.0 Size of Principal Branches and Risers.

A 106.1 Size. The required size of branches and risers shall be permitted to be obtained in the same manner as the building supply, by obtaining the demand load on each branch or riser and using the permissible friction loss computed in Section A 104.0.

A 106.2 Branches. Where fixture branches to the building supply are sized for the same permissible friction loss per 100 feet (30 480 mm) of pipe as the branches and risers to the highest level in the building and lead to the inadequate water supply to the upper floor of a building, one of the following shall be provided:

(1) Selecting the sizes of pipe for the different branches so that the total friction loss in each lower branch is approximately equal to the total loss in the riser, including both friction loss and loss in static pressure.

(2) Throttling each such branch using a valve until the preceding balance is obtained.

(3) Increasing the size of the building supply and risers above the minimum required to meet the maximum permissible friction loss.

A 106.3 Water Closets. The size of branches and mains serving flushometer tanks shall be consistent with sizing procedures for flush tank water closets.

A 107.0 General.

A 107.1 Velocities. Velocities shall not exceed 10 feet per second (ft/s) (3 m/s), except as otherwise approved by the Authority Having Jurisdiction.

A 107.2 Pressure-Reducing Valves. Where a pressure-reducing valve is used in the building supply, the developed length of supply piping and the permissible friction loss shall be computed from the building side of the valve.

A 107.3 Fittings. The allowances in Table A 104.4(1) for fittings are based on non-recessed threaded fittings. For recessed threaded fittings and streamlined soldered fittings, one-half of the allowances given in the table will be ample.

TABLE A 103.1
WATER SUPPLY FIXTURE UNITS (WSFU) AND MINIMUM FIXTURE BRANCH PIPE SIZES[3]

APPLIANCES, APPURTENANCES, OR FIXTURES[2]	MINIMUM FIXTURE BRANCH PIPE SIZE[1,4] (inches)	PRIVATE	PUBLIC	ASSEMBLY[6]
Bathtub or Combination Bath/Shower (fill)	½	4.0	4.0	–
¾ inch Bathtub Fill Valve	¾	10.0	10.0	–
Bidet	½	1.0	–	–
Clothes Washer	½	4.0	4.0	–
Dental Unit, cuspidor	½	–	1.0	–
Dishwasher, domestic	½	1.5	1.5	–
Drinking Fountain or Water Cooler	½	0.5	0.5	0.75
Hose Bibb	½	2.5	2.5	–
Hose Bibb, each additional[7]	½	1.0	1.0	–
Lavatory	½	1.0	1.0	1.0
Lawn Sprinkler, each head[5]	–	1.0	1.0	–
Mobile Home, each (minimum)	–	12.0	–	–
Sinks	–	–	–	–
Bar	½	1.0	2.0	–
Clinical Faucet	½	–	3.0	–
Clinical Flushometer Valve with or without faucet	1	–	8.0	–
Kitchen, domestic	½	1.5	1.5	–
Laundry	½	1.5	1.5	–
Service or Mop Basin	½	1.5	3.0	–
Washup, each set of faucets	½	–	2.0	–
Shower per head	½	2.0	2.0	–
Urinal, 1.0 GPF Flushometer Valve	¾	3.0	4.0	5.0
Urinal, greater than 1.0 GPF Flushometer Valve	¾	4.0	5.0	6.0
Urinal, flush tank	½	2.0	2.0	3.0
Wash Fountain, circular spray	¾	–	4.0	–
Water Closet, 1.6 GPF Gravity Tank	½	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Tank	½	2.5	2.5	3.5
Water Closet, 1.6 GPF Flushometer Valve	1	5.0	5.0	8.0
Water Closet, greater than 1.6 GPF Gravity Tank	½	3.0	5.5	7.0
Water Closet, greater than 1.6 GPF Flushometer Valve	1	7.0	8.0	10.0

For SI units: 1 inch = 25 mm

Notes:

[1] Size of the cold branch pipe, or both the hot and cold branch pipes.

[2] Appliances, appurtenances, or fixtures not included in this table shall be permitted to be sized by reference to fixtures having a similar flow rate and frequency of use.

[3] The listed fixture unit values represent their total load on the cold water building supply. The separate cold water and hot water fixture unit value for fixtures having both cold and hot water connections shall be permitted to be three-quarters of the listed total value of the fixture.

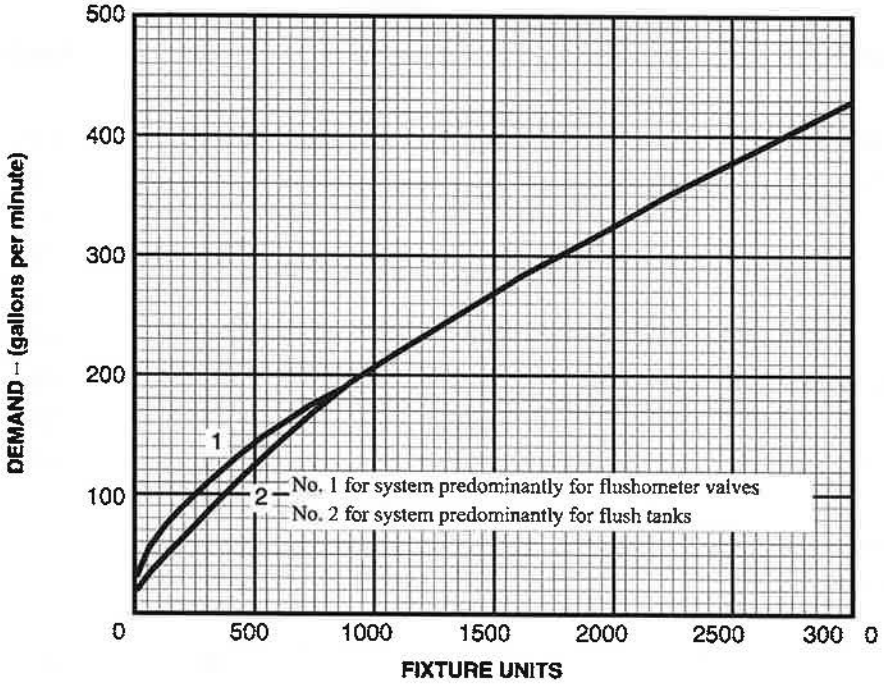
[4] The listed minimum supply branch pipe sizes for individual fixtures are the nominal (I.D.) pipe size.

[5] For fixtures or supply connections likely to impose continuous flow demands, determine the required flow in gallons per minute (gpm) (L/s) and add it separately to the demand in gpm (L/s) for the distribution system or portions thereof.

[6] Assembly [Public Use (see Table 422.1)].

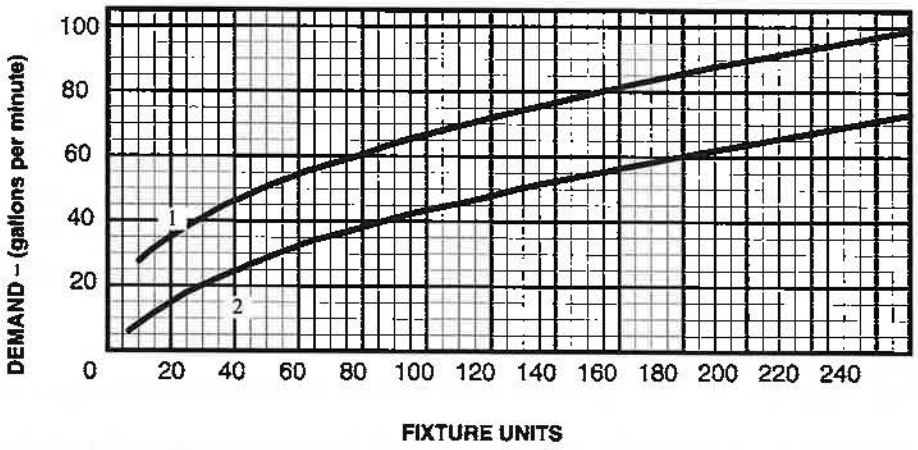
[7] Reduced fixture unit loading for additional hose bibbs is to be used where sizing total building demand and for pipe sizing where more than one hose bibb is supplied by a segment of water distribution pipe. The fixture branch to each hose bibb shall be sized by 2.5 fixture units.

CHART A 103.1(1)
ESTIMATE CURVES FOR DEMAND LOAD



For SI units: 1 gallon per minute = 0.06 L/s

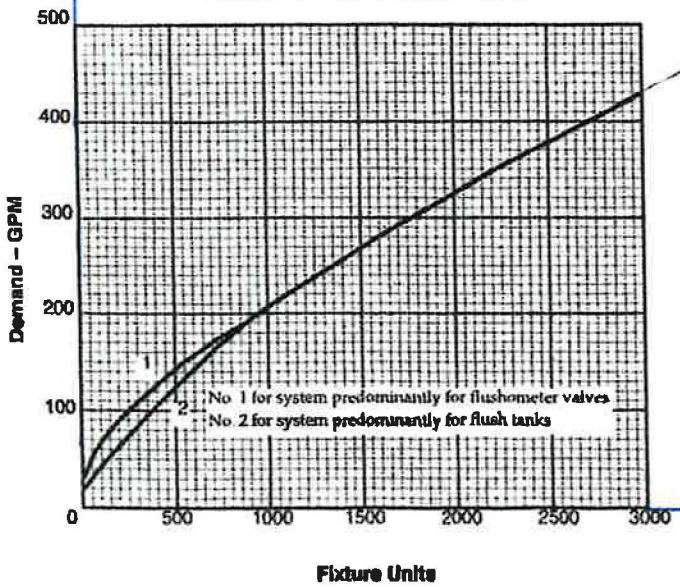
CHART A 103.1(2)
ENLARGED SCALE DEMAND LOAD



For SI units: 1 gallon per minute = 0.06 L/s

Chart A-2

Estimate Curves for Demand Load



1,100

1,000

900

800

4,000

5,000

10,000

CITY OF OCEANSIDE
WATER UTILITIES DEPARTMENT

WATER SYSTEM CAPACITY BUY-IN FEES Based on Meter Size									WASTEWATER SYSTEM BUY-IN FEES		TOTAL BUY-IN FEES	
Use Type	Meter Size	Meter Only	Water System Capacity Buy-In Fees	SDCWA Capacity Charge	SDCWA Water Treatment Cap. Charge	AWWA Operating Capacity (gpm)	Max Fixture Units	Total	Meter Size	Wastewater System Capacity Buy-In Fees	Meter Size	Total
Single Family Residential	5/8"	$ 590	$ 5,680	$ 5,328	$ 149	20	30	$ 11,747	5/8"	$ 7,794	5/8"	$ 19,541
	3/4"	$ 618	$ 8,520	$ 5,328	$ 149	30	53	$ 14,615	3/4"	$ 7,794	3/4"	$ 22,409
	1"	$ 742	$ 14,200	$ 8,525	$ 238	50	130	$ 23,705	1"	$ 7,794	1"	$ 31,499
	1-1/2"	$ 2,214	$ 28,400	$ 15,984	$ 447	100	375	$ 47,045	1-1/2"	$ 7,794	1-1/2"	$ 54,839
	2"	$ 2,546	$ 45,440	$ 27,706	$ 775	160	700	$ 76,467	2"	$ 7,794	2"	$ 84,261
Multi-family & Non-residential	5/8"	$ 590	$ 5,680	$ 5,328	$ 149	20	30	$ 11,747	5/8"	$ 7,794	5/8"	$ 19,541
	3/4"	$ 618	$ 8,520	$ 5,328	$ 149	30	53	$ 14,615	3/4"	$ 11,691	3/4"	$ 26,306
	1"	$ 742	$ 14,200	$ 8,525	$ 238	50	130	$ 23,705	1"	$ 19,486	1"	$ 43,191
	1-1/2"	$ 2,214	$ 28,400	$ 15,984	$ 447	100	375	$ 47,045	1-1/2"	$ 38,971	1-1/2"	$ 86,016
	2"	$ 2,546	$ 45,440	$ 27,706	$ 775	160	700	$ 76,467	2"	$ 62,354	2"	$ 138,821
	3"	$ 2,639	$ 85,200	$ 51,149	$ 1,430	350	*	$ 140,418	3"	$ 116,914	3"	$ 257,332
	4"	$ 4,357	$ 142,000	$ 87,379	$ 2,443	600	*	$ 236,179	4"	$ 194,856	4"	$ 431,035
	6"	$ 7,283	$ 284,000	$ 159,840	$ 4,470	1350	*	$ 455,593	6"	$ 389,712	6"	$ 845,305
	8"	$ 11,725	$ 454,400	$ 277,056	$ 7,748	1600	*	$ 750,929	8"	$ 623,539	8"	$ 1,374,468

Operating Capacity: AWWA C700 Cold-Water Meters – Displacement Type, Table 1
Max fixture units per California Plumbing Code Apendix A, Table A 103.1
Max fixture units for meters over 2" shall be determined by the Water Utilities Department
Dedicated irrigation meter required for non-residential and multi-family projects with 3 or more dwelling units

CITY CODES & ORDINANCES FOR FEES

Water System Capacity Buy-In Fees:	Oceanside City Code, Chapter 37, Sec. 37.56.1, Ord. No. 15-OR0480-1
Wastewater System Capacity Buy-In Fees:	Oceanside City Code, Chapter 29, Sec. 29.11.1, Ord. No. 15-OR0479-1
Imposition, Calculation & Collection of Impact Fees	Oceanside City Code, Chapter 32, Sec. 32B.7, Ord. No. 02-OR331-1
SDCWA Capacity Charge:	San Diego County Water Authority effective January 1, 2022
New Water Meter Equipment & Install Fee:	Oceanside City Resolution No. 17-R0121-1

Rev 01/01/2022

Fees effective January 1, 2022

For Non-Health Hazard Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series 774DCDA

Double Check Detector Assemblies

Sizes 2½" – 12" (65 – 300mm)

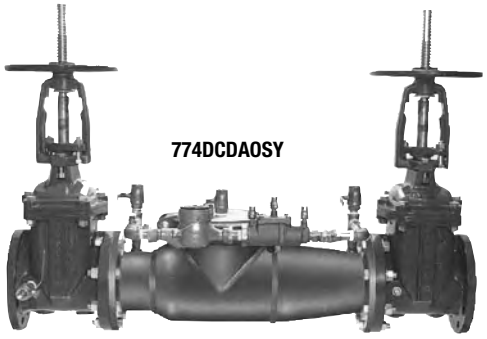
Series 774DCDA Double Check Detector Assemblies are designed for use in accordance with water utility non-health hazard containment requirements. It is mandatory to prevent the reverse flow of fire protection system substances, i.e., glycerin wetting agents, stagnant water and water of non-potable quality from being pumped or siphoned into the potable water supply.

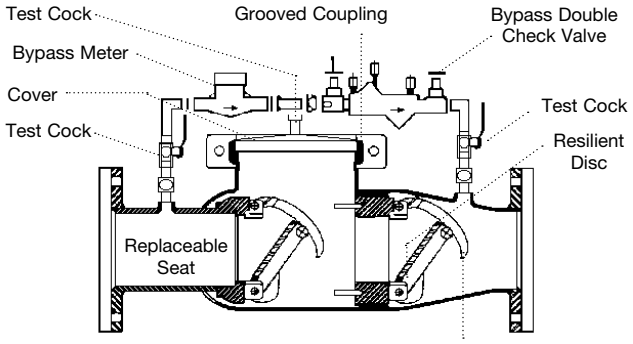
Features

- Torsion spring check valve provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- Thermoplastic and stainless steel check valves for trouble-free operation
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with ⅝" x ¾" (16x19mm) bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- May be installed horizontal or vertical "flow up" position

Specifications

A Double Check Detector Assembly shall be installed on fire protection systems when connected to a potable water supply. Degree of hazard present is determined by the local authority having jurisdiction. The assembly shall consist of two positive seating check valves located between two resilient seated shutoffs with a hydraulically balanced bypass line and four test cocks. The main valve body shall be manufactured from 300 Series stainless steel to provide corrosion resistance. The check valves shall be of thermoplastic construction with stainless steel hinge pins, cam arm and cam bearing. The check valves shall utilize a single torsion spring design to minimize pressure drop through the assembly. The check valves shall be modular and shall seal to the main valve body by the use of an O-ring. There shall be no brass or bronze parts used within the check valve assembly. The check valve seats shall be of molded thermoplastic construction. The use of seat screws as a retention method is prohibited. All internal parts shall be accessible through a single cover on the valve assembly. The valve cover shall be held in place through the use of a single grooved style two-bolt coupling. The bypass line shall be hydraulically sized to accurately measure low flow. The bypass line shall consist of a meter, a small diameter double check assembly with test cocks and isolation valves. The bypass line double check valve shall have two independently operating modular poppet check valves, and top mounted test cocks. The assembly shall be a Watts Series 774DCDA.





Laser Cut Polished Cam Arm

Available Models

Suffix:

LF –	without shutoff valves
OSY –	UL/FM outside stem and yoke resilient seated gate valves
*OSY FxG –	flanged inlet gate connection and grooved outlet gate connection
*OSY GxF –	grooved inlet gate connection and flanged outlet gate connection
*OSY GxG –	grooved inlet gate connection and grooved outlet gate connection
CFM –	cubic feet per minute meter
GPM –	gallons per minute meter

Available with grooved NRS gate valves - consult factory*
Post indicator plate and operating nut available - consult factory*
*Consult factory for dimensions

Now Available
WattsBox Insulated Enclosures.
For more information, send for literature ES-WB.

NOTICE

Inquire with governing authorities for local installation requirements

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS®

Materials

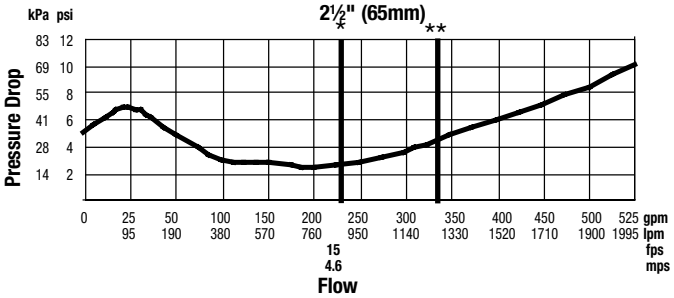
All internal metal parts: 300 Series stainless steel, Main valve body: 300 Series stainless steel, Check assembly: Noryl® Flange dimensions in accordance with AWWA Class D.

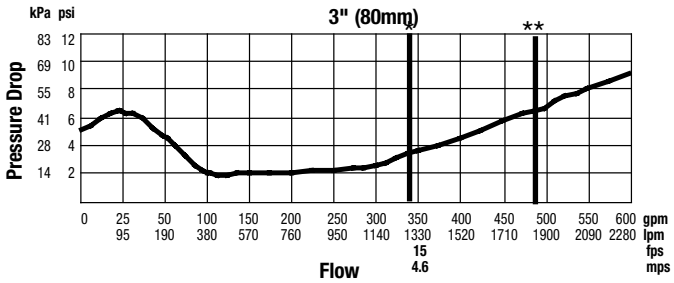
Pressure - Temperature

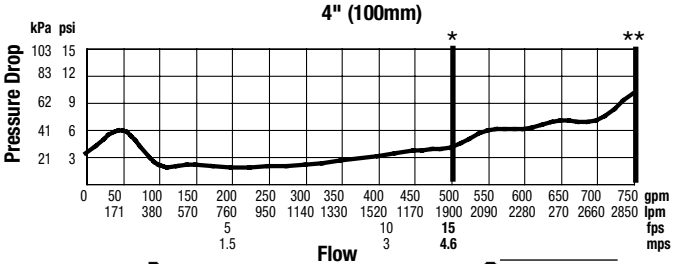
Temperature Range: 33°F – 110°F (0.5°C – 43°C) continuous
Pressure Range: 175psi (12.1 bar)

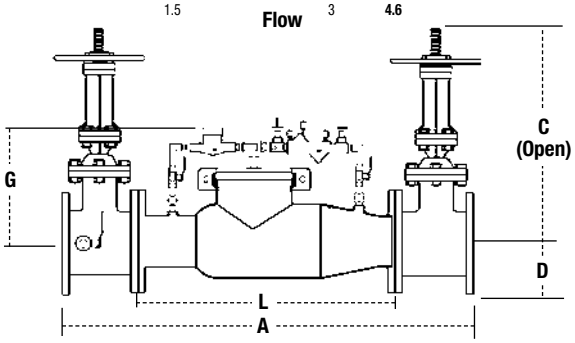
Capacity

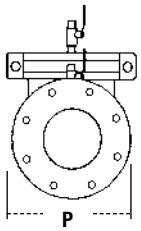
Flow curves as tested by Underwriters Laboratory per UL 1469, 1996 * Rated flow **UL Tested



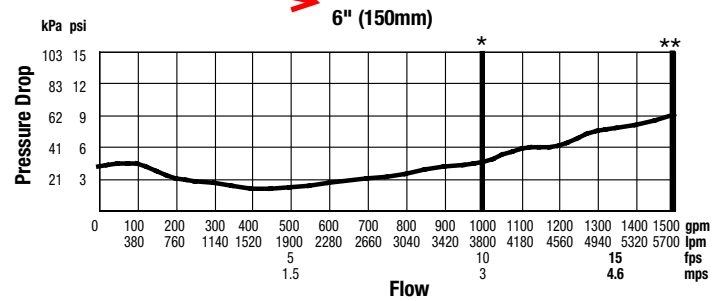


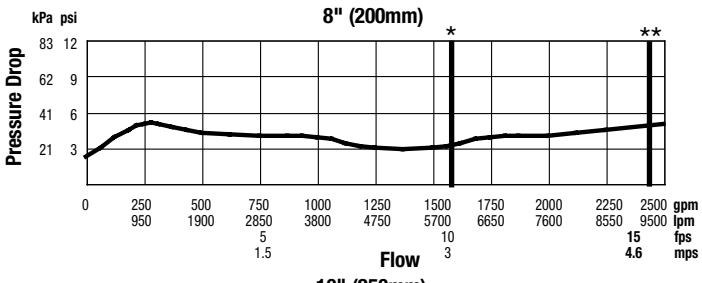


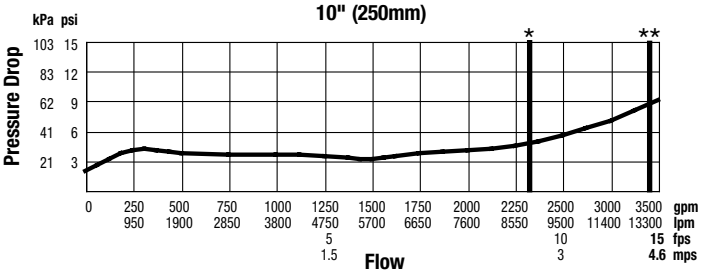


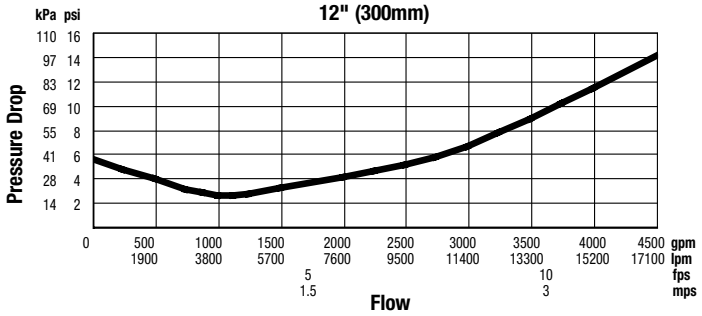


Noryl® is a registered trademark of SABIC Innovative Plastics™.









Standards

AWWA C510, CSA B64.5

Approvals

(2½" - 10" only)
(65 - 250mm)

ASSE 1048

CLASSIFIED c UL us (OSY only)

FM Approved

SIZE (DN)		DIMENSIONS												WEIGHT			
		A		C (OSY)		D		G		L		P		w/Gates		w/o Gates	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	37	940	16⅜	416	3½	89	10	250	22	559	12½	318	155	70	68	31
3	80	38	965	18⅞	479	3¾	95	10	250	22	559	13	330	230	104	70	32
4	100	40	1016	22¾	578	4½	114	10	250	22	559	14½	368	240	109	73	33
6	150	48½	1232	30⅛	765	5½	140	15	381	27½	699	15½	394	390	177	120	54
8	200	52½	1334	37¾	959	6¾	171	15	381	29½	749	18¼	464	572	259	180	82
10	250	55½	1410	45¾	1162	8	200	15	381	29½	749	19½	495	774	351	190	86
12	300	57½	1461	53⅛	1349	9½	241	15	381	29½	749	21	533	1044	474	220	100

WATTS®

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Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca
Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com

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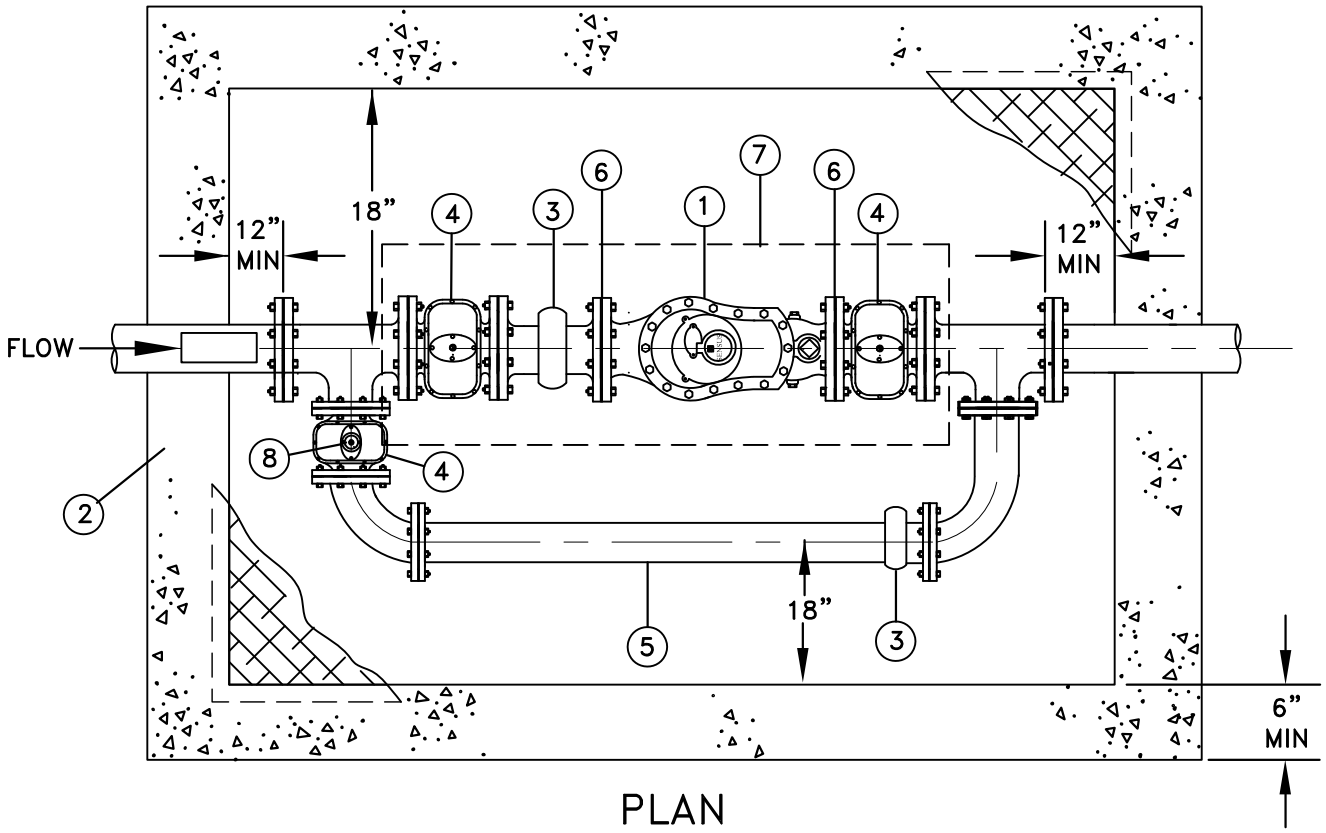


PLAN

BILL OF MATERIALS:

1. MASTER METER SRH COMPOUND METER WITH BUILT IN TEST OUTLET (APPROXIMATELY 20" LONG).
2. VAULT FRAME AND COVER PER STANDARD DWG W-19 AND W-20
3. VICTAULIC COUPLING.
4. RESILIENT WEDGE GATE VALVE, FLANGE X FLANGE WITH 2" OPERATING NUT (CLOSED VALVE).
5. MAINLINE BY-PASS (MAIN LINE SIZE).
6. SUPPORT METER WITH VALVE SUPPORTS PER STANDARD DWG W-18.
7. BILCO 2 PIECE OR USF 2 PIECE ALUMINUM DIAMOND PLATE HATCH. THE HATCH MUST COVER THE LIMITS OF EITHER SIDE OF THE RWGV ON THE MAIN LINE. RATING OF THE HATCH WILL BE MADE ON A CASE-BY-CASE BASIS, APPROVED BY THE WATER UTILITIES DEPARTMENT.
8. PIPELINE PRODUCTS GVL-200 LOCKING GATE VALVE CAP.

NOTES:

1. VAULT DEPTH NOT TO EXCEED 5'-0" FROM TOP OF VAULT TO FLOOR.
2. SERVICES 6" AND LARGER REQUIRE SPECIAL DESIGN.

Revision	By	Approved	Date
10/16/02	DW		
06/04/07	AC		
09/22/10	DW		
12/01/11	DW		
01/04/116	MU		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE

Steven E Strapac 9/17/17

CITY ENGINEER Date

3" & 4" WATER METER FOR COMMERCIAL/INDUSTRIAL/ MULTI-FAMILY SERVICE

STANDARD DRAWING NO. W-10

Sensus SRH Compound Meters

3" SRH Compound Meter

Specifications:

Normal Operating Flow Range

- 2" Size: 2 to 160 gpm
- 3" Size: 4 to 320 gpm
- 4" Size: 6 to 500 gpm
- 6" Size: 10 to 1000 gpm
- *8" Manifold Size: 16 to 1600 gpm

Accuracy (Except at crossover)

- 100% ± 1.5% of actual thruput

Accuracy at Crossover

- 95% minimum

Low Flow Accuracy (95% minimum)

- 2" Size: ¼ gpm
- 3" Size: ½ gpm
- 4" Size: ¾ gpm
- 6" Size: 1½ gpm
- *8" Manifold Size: 2 gpm

Operating Pressure

- 150 psi maximum

* 8" manifold assembly consists of two (2) 4" compound meters, four (4) gate valves, two (2) flanged coupling adapters and two (2) reducing manifolds.

The SRH (Single Register High Performance) Magnetic Drive Compound Meters are intended for use in commercial, industrial and institutional cold water services in which accurate measurement of a wide range of low to high flows is required. Typical applications are for apartment dwellings, office buildings, hotels, schools, hospitals and smaller industrial facilities.

The SRH Compound Meter is essentially two meters within a single, cast bronze housing. All water enters and passes through the turbine chamber. At low flow rates, the water is diverted up through the positive displacement (bypass) measuring chamber. After passing through this chamber, the water passes over the valve and out of the meter. As the flow rate increases, the pressure against the swing action valve increases, forcing the valve to quickly swing to a full open position. The water then flows straight through the turbine chamber and out of the meter.

Conformance to Standards

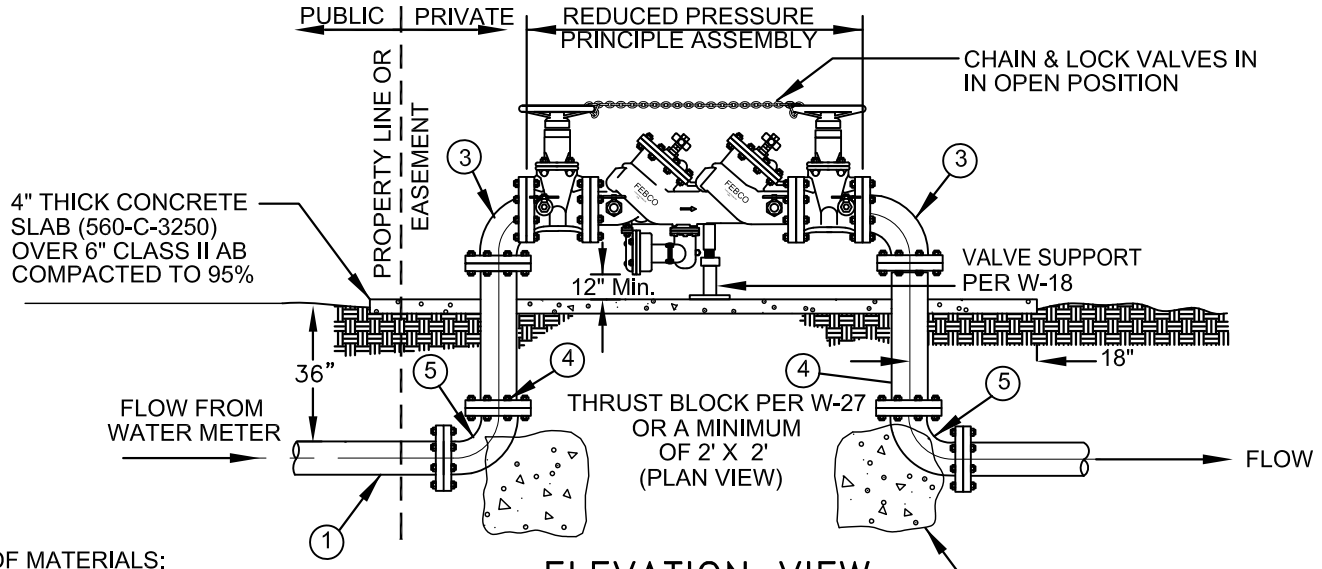
These SRH Compound Meters meet or exceed all requirement of ANSI/AWWA Standard C-702 latest edition.

METER SIZE	PRODUCT NUMBERS REGISTRATION	
	100 CUBIC FEET	1,000 GALLONS
2"	50325	50330
3"	50350	50354
4"	50405	50410
6"	50449	50447
8"	NS	NS

NOTES:

- Compound Meters are normally a non-stock item. Please call your local Team EJP sales office for more information.
- Compound Meters include bronze companion flanges.
- All compound meters are available with TouchRead® System registers.
- Ask about Sensus Pre-Fab-Pak Compound Meter, prefabricated assemblies which include meters, valves, couplings, fittings and fabricated pipe; everything for a complete installation.

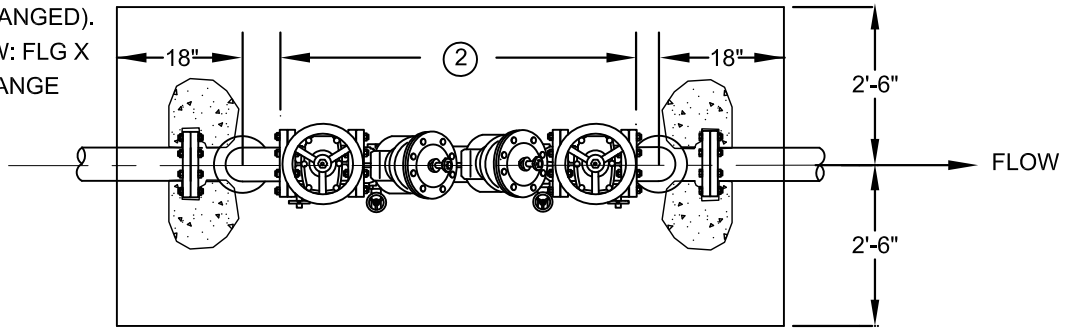
Please see pages H-13—H-16 for information about a new large meter line that will replace the current large meters.



ELEVATION VIEW

BILL OF MATERIALS:

1. PRIVATE WATER MAIN.
2. FACTORY ASSEMBLED.
3. 90° FLANGED DUCTILE IRON ELBOW.
4. FLANGED DUCTILE IRON SPOOL. (BOTH ENDS SHALL BE FLANGED).
5. 90°, DUCTILE IRON ELBOW: FLG X FLG OR FLG X P.O.UNI-FLANGE SHALL NOT BE USED.



PLAN VIEW

NOTES:

1. ASSEMBLY TO BE APPROVED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD OFFICE OF DRINKING WATER AND CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
2. ASSEMBLY SHALL BE ON STATE OF CALIFORNIA LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES FOUND ON UNIVERSITY OF SOUTHERN CALIFORNIA'S FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.
3. ASSEMBLY SHALL BE INSTALLED DOWNSTREAM OF THE METER WITHIN 18".
4. NO CONNECTIONS BETWEEN THE METER AND THE ASSEMBLY ARE PERMITTED.
5. NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL.
6. WHEN THE DISTANCE BETWEEN THE METER BOX AND THE RISER TO THE ASSEMBLY EXCEEDS 18", PROVIDE PVC SLEEVE 2 TIMES THE DIAMETER OF THE WORKING PIPE OR INSTALL A CASING ENCASED IN CONCRETE. INSPECTION IS REQUIRED PRIOR TO BACKFILL.

THIS ASSEMBLY SHALL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT. AFTER WATER UTILITIES DEPARTMENT'S APPROVAL, ASSEMBLY SHALL BE TESTED BY A TESTER ON THE CITY'S APPROVED TESTER LIST. THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE COST OF TESTING THE ASSEMBLY. THEREAFTER, THE ASSEMBLY SHALL BE TESTED ANNUALLY AT THE OWNER'S EXPENSE. THE TEST REPORT IS TO BE SUBMITTED TO THE CITY WATER UTILITIES DEPARTMENT, CROSS CONNECTION CONTROL AT PHONE NUMBER 760-435-5800

Revision	By	Approved	Date
06/08/01	DW		
09/17/02	DW		
07/08/04	AC		
06/04/07	AC		
01/04/16	MU		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE

Steven E Strapac 9/17/17

CITY ENGINEER Date

REDUCED PRESSURE PRINCIPLE ASSEMBLY (3" & LARGER)

STANDARD DRAWING NO. W-13

SPECIFICATION SHEET

FEBCO®

MASTER series®

LEAD FREE*

MasterSeries® LF860

Reduced Pressure Zone Backflow Prevention Assemblies

Size: 2½" - 10" (65mm - 250mm)

The FEBCO MasterSeries LF860 Reduced Pressure Zone Assembly is specifically designed to protect against possible backpressure and backsiphonage conditions for high hazard [i.e., toxic] application in accordance with Local Governing Water Utility Code. This Backflow Prevention Assembly is primarily used on potable drinking water systems where Local Governing Code mandates protection from non-potable water being pumped or siphoned back into the potable water system.

The LF860 features Lead Free* construction to comply with low lead installation requirements. The Lead Free* Reduced Pressure Zone Assemblies shall comply with state codes and standards, where applicable, requiring reduced lead content.

Series LF860 Reduced Pressure Zone Assembly

Features

- Inline Serviceable Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Assembly
- Reversible & Replaceable Discs
- Field Replaceable Seats
- Ductile Iron Valve Body Design
- Stainless Steel Check Components
- Modular Pressure Differential Relief Valve
- Repairable Pressure Differential Relief Valve
- Clapper Check Assembly
- Captured O-ring Design

Specifications

The FEBCO MasterSeries LF860 Reduced Pressure Zone Assembly shall be installed on the potable water supply and at each point of cross-connection to protect against possible backpressure and backsiphonage conditions for high hazard [i.e., toxic] applications. The assembly shall consist of a main line valve body composed of a pressure differential relief valve located in a zone between two (2) independently acting approved clapper style check modules with replaceable seats and disc rubbers. Servicing of the pressure differential relief valve and both check modules does not require any special tools; both check modules are accessed through independently top entry covers. This assembly shall be fitted with AWWA Compliant inlet/outlet resilient seated shutoff valves; when used on a Fire-Sprinkler application, the assembly shall be fitted with approved UL/FM inlet/outlet resilient seated shutoff valves and contain four (4) properly located resilient seated test cocks as specified by AWWA Standard C511. Flow and pressure loss performance parameters shall meet the requirements of AWWA Standard C511.

NOTICE

This information is not intended to replace the product installation and safety information available or the experience of a trained product installer. Please refer to the product installation and safety instructions for further information.

***The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

FEBCO product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact FEBCO. FEBCO reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on FEBCO products previously or subsequently sold.

Options - Suffix

OSY: UL/FM Approved OS&Y Gate Valves (ANSI/AWWA C515 Compliant)

NRS: Non-Rising Stem Gate Valves (ANSI/AWWA C509 Compliant)

LG: Less Shut-off valves; This is NOT an APPROVED ASSEMBLY

Example Ordering Descriptions:

4" LF860-OSY - Valve Assembly fitted with OS&Y Shutoff Valves

4" LF860-NRS - Valve Assembly fitted with NRS Shutoff Valves

Assembly Flow Orientation:

- Horizontal (2½" – 10") - Approved by FCCCHR-USC, ASSE, cULus, FM, IAPMO and CSA

Approvals - Standards

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)
- ASSE 1013 Listed
- **UL Classified (US & Canada)
- **FM Approved
- IAPMO
- AWWA Standard C511 Compliant
- End Connections: Compliant to ASME B16.1 Class 125 & AWWA Class D Flange

**Assembly configured with UL/FM Approved OS&Y RW Gate Valves. Less gate valve assemblies are not UL/FM approved configurations.

1048 B64.4

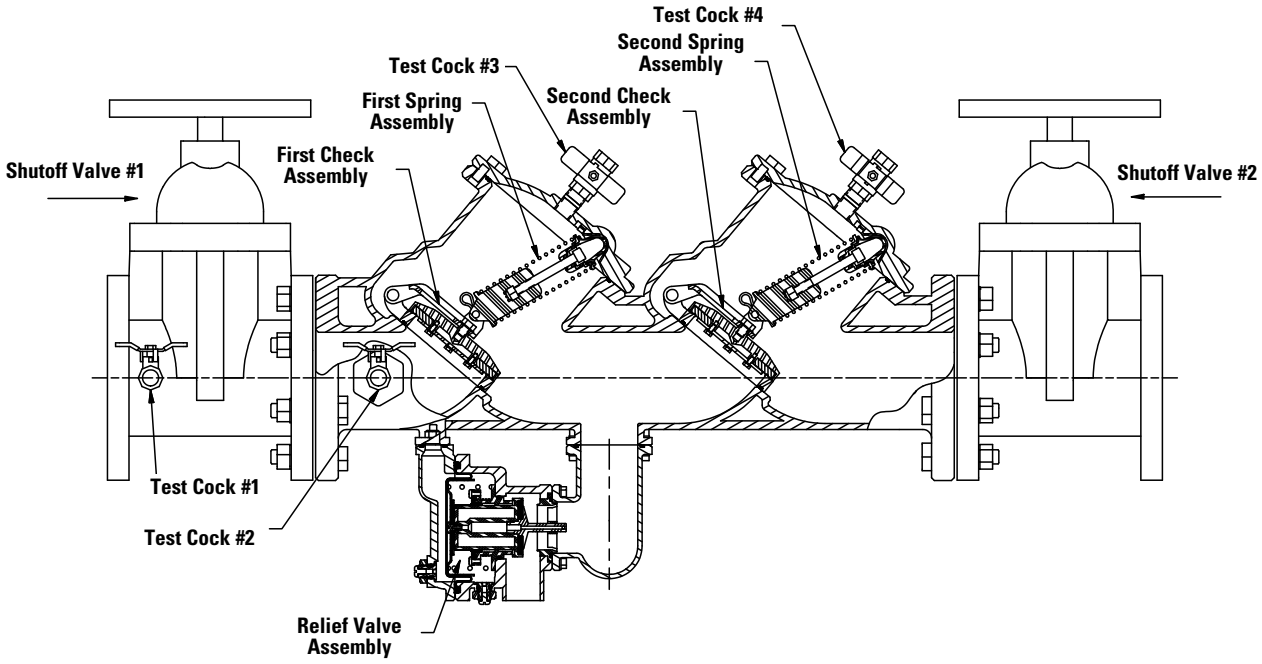
Materials

Below is a general materials list of the Series LF860. All assemblies size 2-1/2" through 10" is similar in materials and construction. Please contact your local FEBCO Representative if you require further information.

Main Valve Body:	Ductile iron Grade 65-45-12
Relief Valve Body:	Ductile iron Grade 65-45-12
Coating:	Fusion epoxy coated internal and external AWWA C550
Shutoff Valves:	NRS resilient wedge gate valve AWWA C509 (Standard) OSY resilient wedge gate valve AWWA C515 (UL/FM)
Check Seats:	Stainless Steel
Disc Holder:	Stainless Steel
Elastomer Disc:	Silicone
Spring:	Stainless Steel
Clamp:	AWWA C606 (10" Only)

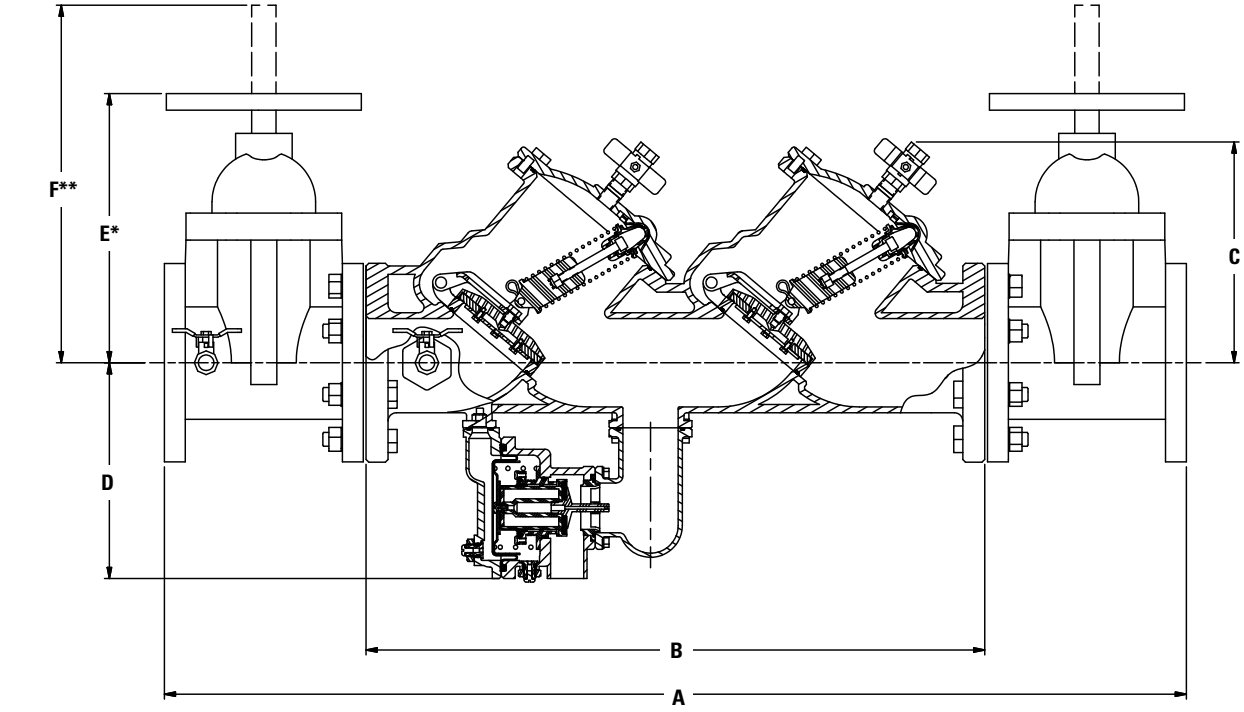
Pressure - Temperature

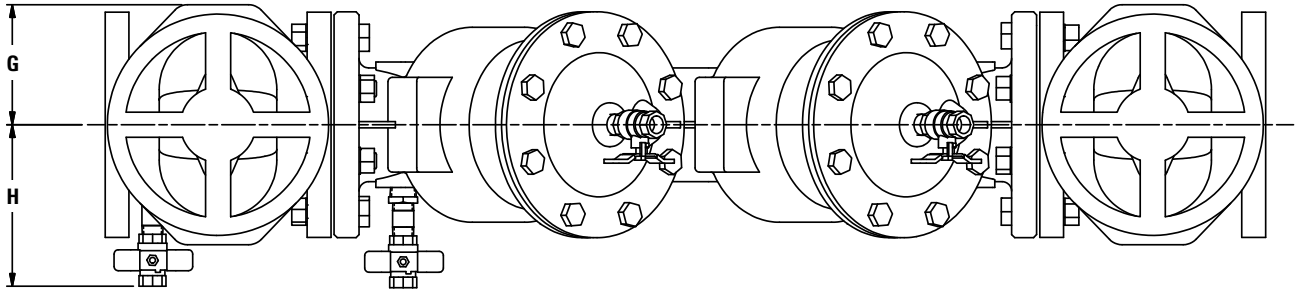
Max. Working Pressure:	175 psi (12.1 bar)
Min. Working Pressure:	20 psi (1.4 bar)
Hydrostatic Test Pressure:	350 psi (24.1 bar)
Hydrostatic Safety Pressure:	700 psi (48.3 bar)
Temperature Range:	33°F - 140°F (0.5°C - 60°C) Continuous



Dimensions & Weights

Below are the nominal dimensions and physical weights for the Series LF860 size 2-1/2" through 10". Allowances must be made for normal manufacturing tolerances. Please visit our website to download a copy of this product's installation instructions, or contact your local FEBCO Representative for more information.





LF860

SIZE (DN)		DIMENSIONS																WEIGHT***			
		A		B		C		D		E*		F**		G		H		NRS		OSY	
in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kg.*	*lbs.*	*kg.*
2½	65	40¾	1035	25½	648	10	254	10	254	12⅝	321	16⅜	416	4½	114	7⅛	181	250	113	254	115
3	80	41⅞	1064	25⅝	651	10	254	10	254	12⅞	327	22¼	565	4½	114	7⅜	187	276	125	280	127
4	100	46¼	1175	28	711	10⅛	257	10⅛	257	14⅜	365	23¼	591	5½	140	8⅛	206	335	152	347	157
6	150	56	1422	34¾	883	12¾	324	11⅛	283	18⅞	479	30⅛	765	6½	165	9⅞	251	503	228	523	237
8	200	65	1651	41¾	1061	15⅝	397	12¼	311	23½	597	37¾	959	7	178	11⅛	283	807	366	835	379
10	250	72⅝	1845	46⅜	1178	15⅝	397	12⅜	314	27½	699	48	1219	9	229	12⅜	314	1205	547	1243	564

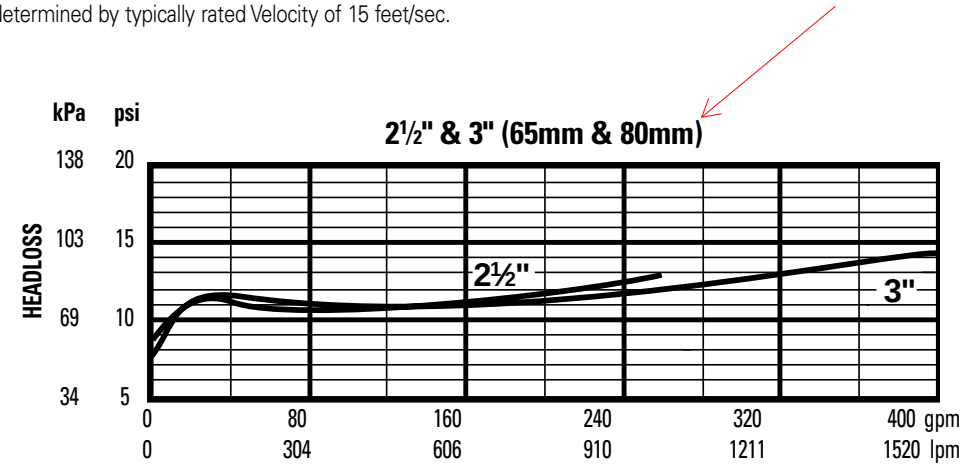
* Indicates nominal dimensions with NRS Gate Valves
** Indicates nominal dimensions with OSY Gate Valves (Full Open Position)
*** Indicates weight of complete Backflow Assemblies with specified Gate Valves

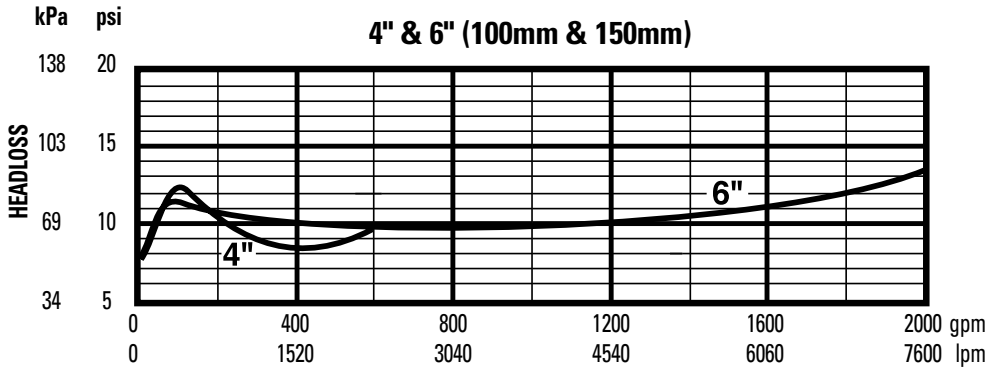
The gap drain is not designed to catch the maximum discharge possible from the relief valve. The installation of the FEBCO air gap with the drain line terminating above a floor drain will handle any normal discharge or nuisance spitting through the relief valve. However, floor drain size may need to be designed to prevent water damage caused by a catastrophic failure condition. Do not reduce the size of the drain line from the air gap fitting.

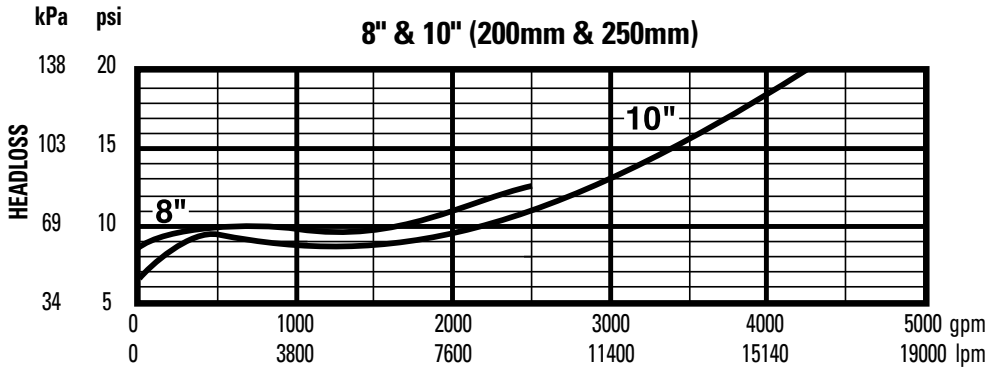
Performance

Flow capacity chart identifies valve performance based upon rated water Velocity up to 20fps

- Maximum service flow rate is determined by maximum rated Velocity of 7.5fps.
- AWWA Manual M-22 (Appendix C) recommends that the maximum water Velocity in the services be not more than 10fps.
- UL flow rate is determined by typically rated Velocity of 15 feet/sec.







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APPENDIX D

FIRE CODE REFERENCE

APPENDIX B

FIRE-FLOW REQUIREMENTS FOR BUILDINGS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance or legislation of the jurisdiction.

User note:

About this appendix: Appendix B provides a tool for the use of jurisdictions in establishing a policy for determining fire-flow requirements in accordance with Section 507.3. The determination of required fire flow is not an exact science, but having some level of information provides a consistent way of choosing the appropriate fire flow for buildings throughout a jurisdiction. The primary tool used in this appendix is a table that presents fire flow based on construction type and building area based on the correlation of the Insurance Services Office (ISO) method and the construction types used in the International Building Code®.

SECTION B101
GENERAL

B101.1 Scope. The procedure for determining fire-flow requirements for buildings or portions of buildings hereafter constructed shall be in accordance with this appendix. This appendix does not apply to structures other than buildings.

SECTION B102
DEFINITIONS

B102.1 Definitions. For the purpose of this appendix, certain terms are defined as follows:

FIRE FLOW. The flow rate of a water supply, measured at 20 pounds per square inch (psi) (138 kPa) residual pressure, that is available for fire fighting.

FIRE-FLOW CALCULATION AREA. The floor area, in square feet (m^2), used to determine the required fire flow.

SECTION B103
MODIFICATIONS

B103.1 Decreases. The fire code official is authorized to reduce the fire-flow requirements for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical.

B103.2 Increases. The fire code official is authorized to increase the fire-flow requirements where conditions indicate an unusual susceptibility to group fires or conflagrations. An increase shall be not more than twice that required for the building under consideration.

B103.3 Areas without water supply systems. For information regarding water supplies for fire-fighting purposes in rural and suburban areas in which adequate and reliable water supply systems do not exist, the fire code official is authorized to utilize NFPA 1142.

SECTION B104
FIRE-FLOW CALCULATION AREA

B104.1 General. The fire-flow calculation area shall be the total floor area of all floor levels within the exterior walls, and under the horizontal projections of the roof of a building, except as modified in Section B104.3.

B104.2 Area separation. Portions of buildings that are separated by fire walls without openings, constructed in accordance with the *California Building Code*, are allowed to be considered as separate fire-flow calculation areas.

B104.3 Type IA and Type IB construction. The fire-flow calculation area of buildings constructed of Type IA and Type IB construction shall be the area of the three largest successive floors.

Exception: Fire-flow calculation area for open parking garages shall be determined by the area of the largest floor.

SECTION B105
FIRE-FLOW REQUIREMENTS FOR BUILDINGS

B105.1 One- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration requirements for one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses shall be as specified in Tables B105.1(1) and B105.1(2).

TABLE B105.1(1)
REQUIRED FIRE FLOW FOR ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

FIRE-FLOW CALCULATION AREA (square feet)	AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE FLOW (gallons per minute)	FLOW DURATION (hours)
0–3,600	No automatic sprinkler system	1,000	1
3,601 and greater	No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2) at the required fire-flow rate
0–3,600	Section 903.3.1.3 of the *California Fire Code* or Section *313.3* of the *California Residential Code*	500	$^1/_2$
3,601 and greater	Section 903.3.1.3 of the *California Fire Code* or Section *313.3* of the *California Residential Code*	$^1/_2$ value in Table B105.1(2)	1

For SI: 1 square foot = 0.0929 m², 1 gallon per minute = 3.785 L/m.

TABLE B105.1(2)
REFERENCE TABLE FOR TABLES B105.1(1) AND B105.2

FIRE-FLOW CALCULATION AREA (square feet)					FIRE FLOW (gallons per minute)[b]	FLOW DURATION (hours)
Type IA and IB[a]	Type IIA and IIIA[a]	Type IV and V-A[a]	Type IIB and IIIB[a]	Type V-B[a]		
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	2
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	3
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	4
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4,500	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5,000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5,250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5,500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5,750	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	6,000	
—	—	115,801-125,500	83,701-90,600	51,501-55,700	6,250	
—	—	125,501-135,500	90,601-97,900	55,701-60,200	6,500	
—	—	135,501-145,800	97,901-106,800	60,201-64,800	6,750	
—	—	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
—	—	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
—	—	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
—	—	179,401-191,400	129,601-138,300	79,801-85,100	7,750	
—	—	191,401-Greater	138,301-Greater	85,101-Greater	8,000	

For SI: 1 square foot = 0.0929 m², 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

a. Types of construction are based on the *California Building Code*.

b. Measured at 20 psi residual pressure.

TABLE B105.2
REQUIRED FIRE FLOW FOR BUILDINGS OTHER THAN ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE FLOW (gallons per minute)	FLOW DURATION (hours)
No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2)
Section 903.3.1.1 of the *California Fire Code*	25% of the value in Table B105.1(2)[a]	Duration in Table B105.1(2) at the reduced flow rate
Section 903.3.1.2 of the *California Fire Code*	25% of the value in Table B105.1(2)[b]	Duration in Table B105.1(2) at the reduced flow rate

For SI: 1 gallon per minute = 3.785 L/m.

a. The reduced fire flow shall be not less than 1,000 gallons per minute.

b. The reduced fire flow shall be not less than 1,500 gallons per minute.

B105.2 Buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses shall be as specified in Tables B105.2 and B105.1(2).

Exception: *[SFM] Group B, S-2 and U occupancies having a floor area not exceeding 1,000 square feet, primarily constructed of noncombustible exterior walls with wood or steel roof framing, having a Class A roof assembly, with uses limited to the following or similar uses:*

1. *California State Parks buildings of an accessory nature (restrooms).*
2. *Safety roadside rest areas, (SRRA), public restrooms.*
3. *Truck inspection facilities, (TIF), CHP office space and vehicle inspection bays.*
4. *Sand/salt storage buildings, storage of sand and salt.*

B105.3 Water supply for buildings equipped with an automatic sprinkler system. For buildings equipped with an approved automatic sprinkler system, the water supply shall be capable of providing the greater of:

1. The automatic sprinkler system demand, including hose stream allowance.
2. The required fire flow.

SECTION B106
REFERENCED STANDARDS

ICC	IBC—18	International Building Code	B104.2
ICC	IWUIC—18	International Wildland-Urban Interface Code	B103.3
ICC	IRC—18	International Residential Code	Table B105.1(1)
NFPA	1142—17	Standard on Water Supplies for Suburban and Rural Fire Fighting	B103.3

TABLE B105.1(1) REQUIRED FIRE FLOW FOR ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

FIRE-FLOW CALCULATION AREA (square feet)	AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE FLOW (gallons per minute)	FLOW DURATION (hours)
0–3,600	No automatic sprinkler system	1,000	1
3,601 and greater	No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2) at the required fire-flow rate
0–3,600	Section 903.3.1.3 of the *California Fire Code* or Section 313.3 of the *California Residential Code*	500	1/2
3,601 and greater	Section 903.3.1.3 of the *California Fire Code* or Section 313.3 of the *California Residential Code*	1/2 value in Table B105.1(2)	1

For SI: 1 square foot = 0.0929 m^2, 1 gallon per minute = 3.785 L/m.

TABLE B105.1(2) REFERENCE TABLE FOR TABLES B105.1(1) AND B105.2

FIRE-FLOW CALCULATION AREA (square feet)					FIRE FLOW (gallons per minute)[b]	FLOW DURATION (hours)
Type IA and IB[a]	Type IIA and IIIA[a]	Type IV and V-A[a]	Type IIB and IIIB[a]	Type V-B[a]		
0–22,700	0–12,700	0–8,200	0–5,900	0–3,600	1,500	2
22,701–30,200	12,701–17,000	8,201–10,900	5,901–7,900	3,601–4,800	1,750	
30,201–38,700	17,001–21,800	10,901–12,900	7,901–9,800	4,801–6,200	2,000	
38,701–48,300	21,801–24,200	12,901–17,400	9,801–12,600	6,201–7,700	2,250	
48,301–59,000	24,201–33,200	17,401–21,300	12,601–15,400	7,701–9,400	2,500	
59,001–70,900	33,201–39,700	21,301–25,500	15,401–18,400	9,401–11,300	2,750	
70,901–83,700	39,701–47,100	25,501–30,100	18,401–21,800	11,301–13,400	3,000	3
83,701–97,700	47,101–54,900	30,101–35,200	21,801–25,900	13,401–15,600	3,250	

APPENDIX E

HYDRAULIC COMPUTER MODEL OUTPUT
PRIVATE DOMESTIC SYSTEM

Reference Exhibit A for Node and Pipe Diagram

The following conditions were modeled for the Pacifica Project:

0. Average Day Demand

1. Peak Hour Demand

2. Peak Demand - WFU Based

```
* * * * * * * * * * * * *  K Y P I P E  * * * * * * * * * * * * *
*                                                                 *
*  Pipe Network Modeling Software                                 *
*                                                                 *
*  CopyRighted by KYPIPE LLC (www.kypipe.com)                     *
*  Version: 10.009  10/01/2019                                    *
*  Company:  Dexter        Serial #:  592169                      *
*  Interface:  Classic                                            *
*  Licensed for Pipe2018                                          *
*                                                                 *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

Date & Time: Mon Mar 20 14:08:28 2023

Master File : \\artic\eng\1043002\pacifica mar 2023 ky pipe domestic.KYP\pacifica mar 2023 ky pipe domestic.P2K

S U M M A R Y O F O R I G I N A L D A T A

U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute
HEAD (HGL) ..... = feet
PRESSURE ..... = psig

P I P E L I N E D A T A

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NAMES #1	#2	LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF.	MINOR LOSS COEFF.
P-1	J-2	Source	450.00	18.00	120.0000	0.00
P-2	J-3	J-13	600.00	8.00	120.0000	0.00
P-3	J-3	J-18	200.00	8.00	120.0000	0.00
P-4	O-M & RP 1	J-12	200.00	6.00	120.0000	1.67
P-5	J-12	J-15	75.00	6.00	120.0000	0.00
P-6	J-15	J-6	380.00	4.00	120.0000	0.00
P-7	J-6	J-9	160.00	4.00	120.0000	1.00
P-8	J-7	J-6	320.00	4.00	120.0000	1.00
P-9	J-7	J-8	160.00	4.00	120.0000	1.00
P-10	J-9	J-17	120.00	6.00	120.0000	0.70
P-11	J-8	J-9	320.00	4.00	120.0000	1.00
P-12	J-8	J-11	160.00	4.00	120.0000	1.00
P-13	J-10	J-9	160.00	4.00	120.0000	1.00
P-14	J-11	J-10	320.00	4.00	120.0000	1.45
P-15	J-4I-M & RP 1		50.00	4.00	120.0000	1.67
P-16	J-13	J-4	230.00	8.00	120.0000	0.00
P-17	J-14	J-3	270.00	8.00	120.0000	0.00
P-18	J-15	J-7	160.00	4.00	120.0000	1.70
P-19	J-12	J-5	150.00	4.00	120.0000	0.00
P-20	J-18I-M & RP 2		190.00	4.00	120.0000	1.67
P-22	O-M & RP 2	J-17	160.00	6.00	120.0000	1.67
P-23	J-1	J-14	250.00	8.00	120.0000	0.00
P-24	J-1	J-2	670.00	8.00	120.0000	0.00
P-25	Source	J-19	670.00	6.00	120.0000	0.00

P-26	J-19	J-1	450.00	8.00	120.0000	0.00
P-27	J-11	J-20	150.00	8.00	120.0000	1.00
P-28	J-8	J-21	150.00	8.00	120.0000	1.00
P-29	J-7	J-22	150.00	8.00	120.0000	1.00
P-30	J-10	J-23	140.00	8.00	120.0000	1.00
P-31	J-15	J-24	150.00	8.00	120.0000	1.00

P U M P/L O S S E L E M E N T D A T A

THERE IS A DEVICE AT NODE M & RP 1 DESCRIBED BY THE FOLLOWING DATA: (ID= 1)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
-18.00	0.00	75.00 (Default)
-25.00	40.00	75.00 (Default)
-28.00	160.00	75.00 (Default)
-30.00	240.00	75.00 (Default)
-35.00	400.00	75.00 (Default)

THERE IS A DEVICE AT NODE M & RP 2 ....> (ID= 1)

N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)
O-M & RP 1		0.00	102.00	
I-M & RP 2		0.00	120.00	
Source		----	0.00	285.00
J-1		0.00	125.00	
J-2		0.00	125.00	
J-3		0.00	126.00	
J-4		0.00	101.00	
J-5		3.00	105.00	
J-6		2.00	100.00	
J-7		2.00	105.00	
J-8		2.00	101.00	
J-9		0.00	98.00	
J-10		2.00	98.00	
J-11		2.00	100.00	
J-12		0.00	104.00	
J-13		0.00	103.00	
J-14		0.00	123.00	
J-15		2.00	105.00	
J-17		0.00	99.00	
J-18		0.00	125.00	
J-19		0.00	125.00	
J-20		2.00	101.00	
J-21		2.00	102.00	
J-22		2.00	106.00	
J-23		2.00	98.00	
J-24		2.00	106.00	
I-M & RP 1		0.00	102.00	
O-M & RP 2		0.00	120.00	

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT
MAXIMUM AND MINIMUM PRESSURES = 3
MAXIMUM AND MINIMUM VELOCITIES = 3

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(P) = 30
NUMBER OF END NODES .....(J) = 25
NUMBER OF PRIMARY LOOPS .....(L) = 5
NUMBER OF SUPPLY NODES .....(F) = 1
NUMBER OF SUPPLY ZONES .....(Z) = 1

==========

Case: 0

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.87693E-04

AVERAGE DAY DEMAND

S I M U L A T I O N D E S C R I P T I O N (L A B E L)

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/ 1000 ft/f	HL/ 1000 ft/f
P-1	J-2	Source	-17.42	0.00	0.00	0.02	0.00	0.00
P-2	J-3	J-13	12.61	0.00	0.00	0.08	0.01	0.01
P-3	J-3	J-18	12.39	0.00	0.00	0.08	0.01	0.01
P-4	O-M & RP 1	J-12	12.61	0.01	0.00	0.14	0.03	0.03
P-5	J-12	J-15	9.61	0.00	0.00	0.11	0.02	0.02
P-6	J-15	J-6	1.43	0.00	0.00	0.04	0.00	0.00
P-7	J-6	J-9	-2.99	0.00	0.00	0.08	0.01	0.01
P-8	J-7	J-6	-2.43	0.00	0.00	0.06	0.01	0.01
P-9	J-7	J-8	2.60	0.00	0.00	0.07	0.01	0.01
P-10	J-9	J-17	-12.39	0.00	0.00	0.14	0.03	0.03
P-11	J-8	J-9	-3.83	0.01	0.00	0.10	0.02	0.02
P-12	J-8	J-11	2.43	0.00	0.00	0.06	0.01	0.01
P-13	J-10	J-9	-5.57	0.01	0.00	0.14	0.04	0.04
P-14	J-11	J-10	-1.57	0.00	0.00	0.04	0.00	0.00
P-15	J-4	I-M & RP 1	12.61	0.01	0.00	0.32	0.24	0.19
P-16	J-13	J-4	12.61	0.00	0.00	0.08	0.01	0.01
P-17	J-14	J-3	25.00	0.01	0.00	0.16	0.02	0.02
P-18	J-15	J-7	4.17	0.00	0.00	0.11	0.03	0.02
P-19	J-12	J-5	3.00	0.00	0.00	0.08	0.01	0.01
P-20	J-18	I-M & RP 2	12.39	0.03	0.00	0.32	0.20	0.18
P-22	O-M & RP 2	J-17	12.39	0.00	0.00	0.14	0.03	0.03
P-23	J-1	J-14	25.00	0.01	0.00	0.16	0.02	0.02
P-24	J-1	J-2	-17.42	0.01	0.00	0.11	0.01	0.01
P-25	Source	J-19	7.58	0.01	0.00	0.09	0.01	0.01
P-26	J-19	J-1	7.58	0.00	0.00	0.05	0.00	0.00
P-27	J-11	J-20	2.00	0.00	0.00	0.01	0.00	0.00
P-28	J-8	J-21	2.00	0.00	0.00	0.01	0.00	0.00
P-29	J-7	J-22	2.00	0.00	0.00	0.01	0.00	0.00
P-30	J-10	J-23	2.00	0.00	0.00	0.01	0.00	0.00
P-31	J-15	J-24	2.00	0.00	0.00	0.01	0.00	0.00

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE gpm	INLET HEAD ft	OUTLET HEAD ft	PUMP HEAD ft	EFFIC-ENCY %	USEFUL POWER Hp	INCREMTL COST $	TOTAL COST $	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. ft	Case
M & RP 1	12.61	182.96	159.76	-23.2	75.00	0.	0.0	0.0	**	**	216.2	0.0000
M & RP 2	12.39	164.94	141.76	-23.2	75.00	0.	0.0	0.0	**	**	198.1	0.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND gpm	HYDRAULIC GRADE ft	NODE ELEVATION ft	PRESSURE HEAD ft	NODE PRESSURE psi
O-M & RP 1		0.00	261.76	102.00	159.76	69.23
I-M & RP 2		0.00	284.94	120.00	164.94	71.47
Source		----	285.00			
J-1		0.00	284.99	125.00	159.99	69.33
J-2		0.00	285.00	125.00	160.00	69.33
J-3		0.00	284.98	126.00	158.98	68.89
J-4		0.00	284.97	101.00	183.97	79.72
J-5		3.00	261.75	105.00	156.75	67.93
J-6		2.00	261.75	100.00	161.75	70.09
J-7		2.00	261.75	105.00	156.75	67.93
J-8		2.00	261.75	101.00	160.75	69.66
J-9		0.00	261.76	98.00	163.76	70.96
J-10		2.00	261.75	98.00	163.75	70.96
J-11		2.00	261.75	100.00	161.75	70.09
J-12		0.00	261.76	104.00	157.76	68.36
J-13		0.00	284.98	103.00	181.98	78.86
J-14		0.00	284.99	123.00	161.99	70.19
J-15		2.00	261.75	105.00	156.75	67.93
J-17		0.00	261.76	99.00	162.76	70.53
J-18		0.00	284.98	125.00	159.98	69.32
J-19		0.00	284.99	125.00	159.99	69.33
J-20		2.00	261.75	101.00	160.75	69.66
J-21		2.00	261.75	102.00	159.75	69.22
J-22		2.00	261.75	106.00	155.75	67.49
J-23		2.00	261.75	98.00	163.75	70.96
J-24		2.00	261.75	106.00	155.75	67.49
I-M & RP 1		0.00	284.96	102.00	182.96	79.28
O-M & RP 2		0.00	261.76	120.00	141.76	61.43

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
J-4	79.72	O-M & RP 2	61.43
I-M & RP 1	79.28	J-22	67.49
J-13	78.86	J-24	67.49

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-15	0.32	P-27	0.01
P-20	0.32	P-28	0.01
P-17	0.16	P-29	0.01

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
Source	25.00	

NET SYSTEM INFLOW = 25.00
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 25.00

==========

Case: 1

C H A N G E S F O R N E X T S I M U L A T I O N (Change Number = 1)

Peak Hour Demand

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

RESULTS OBTAINED AFTER 4 TRIALS: ACCURACY = 0.66058E-05

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/ 1000 ft/f	HL/ 1000 ft/f
P-1	J-2	Source	-52.26	0.00	0.00	0.07	0.00	0.00
P-2	J-3	J-13	38.96	0.03	0.00	0.25	0.05	0.05
P-3	J-3	J-18	36.04	0.01	0.00	0.23	0.05	0.05
P-4	O-M & RP 1	J-12	38.96	0.04	0.01	0.44	0.24	0.21
P-5	J-12	J-15	29.96	0.01	0.00	0.34	0.13	0.13
P-6	J-15	J-6	4.99	0.01	0.00	0.13	0.03	0.03
P-7	J-6	J-9	-8.21	0.01	0.00	0.21	0.09	0.08
P-8	J-7	J-6	-7.19	0.02	0.00	0.18	0.07	0.07
P-9	J-7	J-8	8.17	0.01	0.00	0.21	0.09	0.08
P-10	J-9	J-17	-36.04	0.02	0.00	0.41	0.20	0.18
P-11	J-8	J-9	-11.27	0.05	0.00	0.29	0.16	0.15
P-12	J-8	J-11	7.44	0.01	0.00	0.19	0.07	0.07
P-13	J-10	J-9	-16.56	0.05	0.00	0.42	0.33	0.31
P-14	J-11	J-10	-4.56	0.01	0.00	0.12	0.03	0.03
P-15	J-4I-M & RP 1		38.96	0.08	0.03	0.99	2.03	1.52
P-16	J-13	J-4	38.96	0.01	0.00	0.25	0.05	0.05
P-17	J-14	J-3	75.00	0.05	0.00	0.48	0.17	0.17
P-18	J-15	J-7	12.97	0.03	0.00	0.33	0.22	0.20
P-19	J-12	J-5	9.00	0.02	0.00	0.23	0.10	0.10
P-20	J-18I-M & RP 2		36.04	0.25	0.02	0.92	1.43	1.32
P-22	O-M & RP 2	J-17	36.04	0.03	0.00	0.41	0.21	0.18
P-23	J-1	J-14	75.00	0.04	0.00	0.48	0.17	0.17
P-24	J-1	J-2	-52.26	0.06	0.00	0.33	0.09	0.09
P-25	Source	J-19	22.74	0.05	0.00	0.26	0.08	0.08
P-26	J-19	J-1	22.74	0.01	0.00	0.15	0.02	0.02
P-27	J-11	J-20	6.00	0.00	0.00	0.04	0.00	0.00
P-28	J-8	J-21	6.00	0.00	0.00	0.04	0.00	0.00
P-29	J-7	J-22	6.00	0.00	0.00	0.04	0.00	0.00
P-30	J-10	J-23	6.00	0.00	0.00	0.04	0.00	0.00
P-31	J-15	J-24	6.00	0.00	0.00	0.04	0.00	0.00

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE gpm	INLET HEAD ft	OUTLET HEAD ft	PUMP HEAD ft	EFFIC-ENCY %	USEFUL POWER Hp	INCREMTL COST $	TOTAL COST $	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. ft	Case
M & RP 1	38.96	182.70	157.75	-25.0	75.00	0.	0.0	0.0	**	**	215.9	1.0000
M & RP 2	36.04	164.57	139.75	-24.8	75.00	0.	0.0	0.0	**	**	197.8	1.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND gpm	HYDRAULIC GRADE ft	NODE ELEVATION ft	PRESSURE HEAD ft	NODE PRESSURE psi
O-M & RP 1		0.00	259.75	102.00	157.75	68.36
I-M & RP 2		0.00	284.57	120.00	164.57	71.31
Source		----	285.00			
J-1		0.00	284.94	125.00	159.94	69.31
J-2		0.00	285.00	125.00	160.00	69.33
J-3		0.00	284.85	126.00	158.85	68.83
J-4		0.00	284.81	101.00	183.81	79.65
J-5		9.00(3.00)	259.69	105.00	154.69	67.03
J-6		6.00(3.00)	259.68	100.00	159.68	69.20
J-7		6.00(3.00)	259.66	105.00	154.66	67.02
J-8		6.00(3.00)	259.65	101.00	158.65	68.75
J-9		0.00	259.70	98.00	161.70	70.07
J-10		6.00(3.00)	259.64	98.00	161.64	70.05
J-11		6.00(3.00)	259.63	100.00	159.63	69.17
J-12		0.00	259.70	104.00	155.70	67.47
J-13		0.00	284.82	103.00	181.82	78.79
J-14		0.00	284.90	123.00	161.90	70.15
J-15		6.00(3.00)	259.69	105.00	154.69	67.03
J-17		0.00	259.72	99.00	160.72	69.64
J-18		0.00	284.84	125.00	159.84	69.26
J-19		0.00	284.95	125.00	159.95	69.31
J-20		6.00(3.00)	259.63	101.00	158.63	68.74
J-21		6.00(3.00)	259.64	102.00	157.64	68.31
J-22		6.00(3.00)	259.66	106.00	153.66	66.59
J-23		6.00(3.00)	259.64	98.00	161.64	70.05
J-24		6.00(3.00)	259.69	106.00	153.69	66.60
I-M & RP 1		0.00	284.70	102.00	182.70	79.17
O-M & RP 2		0.00	259.75	120.00	139.75	60.56

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
J-4	79.65	O-M & RP 2	60.56
I-M & RP 1	79.17	J-22	66.59
J-13	78.79	J-24	66.60

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-15	0.99	P-27	0.04
P-20	0.92	P-28	0.04
P-17	0.48	P-29	0.04

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
Source	75.00	

NET SYSTEM INFLOW = 75.00
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 75.00

==========

Case: 2

C H A N G E S F O R N E X T S I M U L A T I O N (Change Number = 2)

Peak Demand - WFU Based

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

RESULTS OBTAINED AFTER 4 TRIALS: ACCURACY = 0.17561E-05

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/ 1000 ft/f	HL/ 1000 ft/f
P-1	J-2	Source	-470.36	0.05	0.00	0.59	0.10	0.10
P-2	J-3	J-13	376.20	2.08	0.00	2.40	3.47	3.47
P-3	J-3	J-18	298.80	0.45	0.00	1.91	2.26	2.26
P-4	O-M & RP 1	J-12	376.20	2.81	0.47	4.27	16.43	14.07
P-5	J-12	J-15	295.20	0.67	0.00	3.35	8.98	8.98
P-6	J-15	J-6	59.75	1.28	0.00	1.53	3.36	3.36
P-7	J-6	J-9	-56.23	0.48	0.03	1.44	3.20	3.00
P-8	J-7	J-6	-61.98	1.15	0.04	1.58	3.71	3.59
P-9	J-7	J-8	81.43	0.95	0.07	2.08	6.37	5.96
P-10	J-9	J-17	-298.80	1.10	0.12	3.39	10.22	9.18
P-11	J-8	J-9	-96.82	2.63	0.09	2.47	8.50	8.20
P-12	J-8	J-11	70.25	0.72	0.05	1.79	4.84	4.53
P-13	J-10	J-9	-145.75	2.80	0.21	3.72	18.85	17.50
P-14	J-11	J-10	-37.75	0.46	0.02	0.96	1.50	1.43
P-15	J-4I-M & RP 1		376.20	5.07	2.39	9.60	149.17	101.34
P-16	J-13	J-4	376.20	0.80	0.00	2.40	3.47	3.47
P-17	J-14	J-3	675.00	2.76	0.00	4.31	10.23	10.23
P-18	J-15	J-7	127.45	2.18	0.28	3.25	15.40	13.65
P-19	J-12	J-5	81.00	0.88	0.00	2.07	5.90	5.90
P-20	J-18I-M & RP 2		298.80	12.57	1.51	7.63	74.09	66.14
P-22	O-M & RP 2	J-17	298.80	1.47	0.30	3.39	11.04	9.18
P-23	J-1	J-14	675.00	2.56	0.00	4.31	10.23	10.23
P-24	J-1	J-2	-470.36	3.51	0.00	3.00	5.24	5.24
P-25	Source	J-19	204.64	3.05	0.00	2.32	4.56	4.56
P-26	J-19	J-1	204.64	0.50	0.00	1.31	1.12	1.12
P-27	J-11	J-20	54.00	0.01	0.00	0.34	0.11	0.10
P-28	J-8	J-21	54.00	0.01	0.00	0.34	0.11	0.10
P-29	J-7	J-22	54.00	0.01	0.00	0.34	0.11	0.10
P-30	J-10	J-23	54.00	0.01	0.00	0.34	0.11	0.10
P-31	J-15	J-24	54.00	0.01	0.00	0.34	0.11	0.10

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE gpm	INLET HEAD ft	OUTLET HEAD ft	PUMP HEAD ft	EFFIC-ENCY %	USEFUL POWER Hp	INCREMTL COST $	TOTAL COST $	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. ft	Case
M & RP 1	376.20	163.79	129.57	-34.2	75.00	-3.	0.0	0.0	**	**	195.6	2.0000
M & RP 2	298.80	141.59	109.85	-31.7	75.00	-2.	0.0	0.0	**	**	173.9	2.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND gpm	HYDRAULIC GRADE ft	NODE ELEVATION ft	PRESSURE HEAD ft	NODE PRESSURE psi
O-M & RP 1		0.00	231.57	102.00	129.57	56.15
I-M & RP 2		0.00	261.59	120.00	141.59	61.36
Source		----	285.00			
J-1		0.00	281.44	125.00	156.44	67.79
J-2		0.00	284.95	125.00	159.95	69.31
J-3		0.00	276.12	126.00	150.12	65.05
J-4		0.00	273.25	101.00	172.25	74.64
J-5		81.00(**)	227.40	105.00	122.40	53.04
J-6		54.00(**)	226.34	100.00	126.34	54.75
J-7		54.00(**)	225.15	105.00	120.15	52.07
J-8		54.00(**)	224.13	101.00	123.13	53.36
J-9		0.00	226.85	98.00	128.85	55.84
J-10		54.00(**)	223.84	98.00	125.84	54.53
J-11		54.00(**)	223.36	100.00	123.36	53.45
J-12		0.00	228.29	104.00	124.29	53.86
J-13		0.00	274.04	103.00	171.04	74.12
J-14		0.00	278.89	123.00	155.89	67.55
J-15		54.00(**)	227.61	105.00	122.61	53.13
J-17		0.00	228.08	99.00	129.08	55.93
J-18		0.00	275.67	125.00	150.67	65.29
J-19		0.00	281.95	125.00	156.95	68.01
J-20		54.00(**)	223.34	101.00	122.34	53.01
J-21		54.00(**)	224.11	102.00	122.11	52.92
J-22		54.00(**)	225.13	106.00	119.13	51.63
J-23		54.00(**)	223.82	98.00	125.82	54.52
J-24		54.00(**)	227.60	106.00	121.60	52.69
I-M & RP 1		0.00	265.79	102.00	163.79	70.97
O-M & RP 2		0.00	229.85	120.00	109.85	47.60

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
J-4	74.64	O-M & RP 2	47.60
J-13	74.12	J-22	51.63
I-M & RP 1	70.97	J-7	52.07

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-15	9.60	P-27	0.34
P-20	7.63	P-28	0.34
P-17	4.31	P-29	0.34

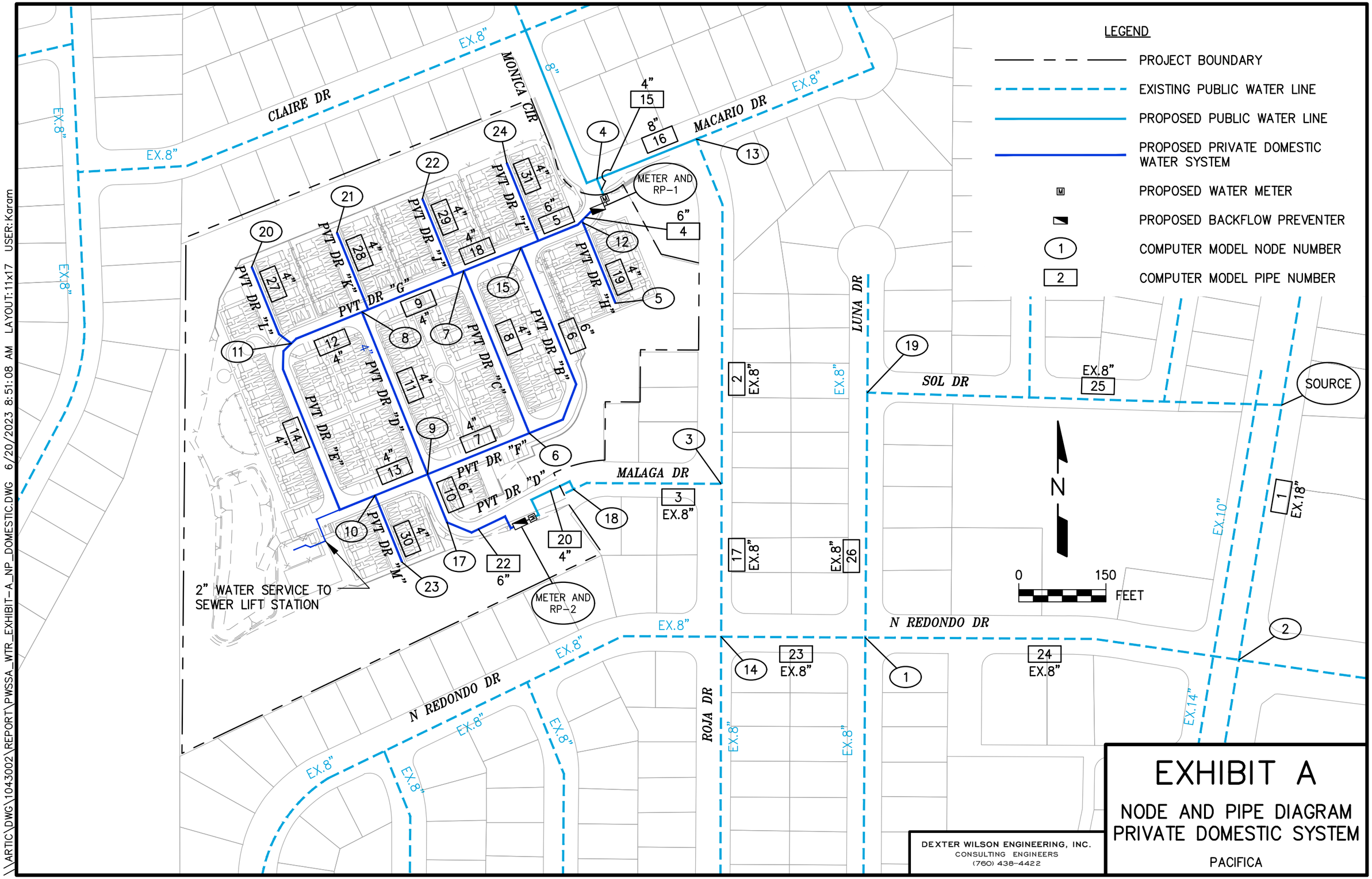
S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
Source	675.00	

NET SYSTEM INFLOW = 675.00
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 675.00

***** HYDRAULIC ANALYSIS COMPLETED *****



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APPENDIX F

HYDRAULIC COMPUTER MODEL OUTPUT
PRIVATE FIRE PROTECTION SYSTEM

Reference Exhibit B for Node and Pipe Diagram

The following conditions were modeled for the Pacifica Project:

1. Maximum Day Demands plus 1,500 gpm at Node 15

2. Maximum Day Demands plus 1,500 gpm at Node 11

```
* * * * * * * * * * * * *  K Y P I P E  * * * * * * * * * * * * *
*                                                                 *
*  Pipe Network Modeling Software                                 *
*                                                                 *
*  CopyRighted by KYPIPE LLC (www.kypipe.com)                     *
*  Version: 10.009  10/01/2019                                    *
*  Company:  Dexter        Serial #:  592169                      *
*  Interface:  Classic                                            *
*  Licensed for Pipe2018                                          *
*                                                                 *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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Date & Time: Mon Mar 20 14:19:51 2023

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SUMMARY OF ORIGINAL DATA

UNITS SPECIFIED

FLOWRATE ..... = gallons/minute
HEAD (HGL) ..... = feet
PRESSURE ..... = psig

PIPELINE DATA

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NAMES #1	#2	LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF.	MINOR LOSS COEFF.
P-1	J-2	Source	450.00	18.00	120.0000	0.00
P-2	J-3	J-13	600.00	8.00	120.0000	0.00
P-3	J-3	J-18	200.00	8.00	120.0000	0.00
P-4	J-6	J-15	360.00	8.00	120.0000	2.00
P-5	O-DCDA-1	J-15	160.00	8.00	120.0000	5.57
P-7	J-6	J-9	160.00	8.00	120.0000	1.00
P-8	J-7	J-6	320.00	8.00	120.0000	2.00
P-9	J-7	J-8	160.00	8.00	120.0000	1.00
P-10	J-9	J-17	120.00	8.00	120.0000	0.70
P-11	J-8	J-9	320.00	8.00	120.0000	1.40
P-12	J-8	J-11	160.00	8.00	120.0000	0.70
P-13	J-10	J-9	160.00	8.00	120.0000	1.00
P-14	J-11	J-10	320.00	8.00	120.0000	0.75
P-15	J-4	I-DCDA-1	50.00	8.00	120.0000	1.67
P-16	J-13	J-4	230.00	8.00	120.0000	0.00
P-17	J-14	J-3	270.00	8.00	120.0000	0.00
P-18	J-15	J-7	160.00	8.00	120.0000	1.70
P-20	J-18	I-DCDA-2	190.00	8.00	120.0000	1.67
P-22	O-DCDA-2	J-17	160.00	8.00	120.0000	1.67
P-23	J-1	J-14	250.00	8.00	120.0000	0.00
P-24	J-1	J-2	670.00	8.00	120.0000	0.00
P-25	Source	J-19	670.00	6.00	120.0000	0.00
P-26	J-19	J-1	450.00	8.00	120.0000	0.00

P U M P/L O S S E L E M E N T D A T A

THERE IS A DEVICE AT NODE DCDA-1 DESCRIBED BY THE FOLLOWING DATA: (ID= 1)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
-9.00	0.00	75.00 (Default)
-12.00	900.00	75.00 (Default)
-14.00	1100.00	75.00 (Default)
-18.00	1300.00	75.00 (Default)
-21.00	1500.00	75.00 (Default)

THERE IS A DEVICE AT NODE DCDA-2 ....> (ID= 1)

N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)
Source		----	0.00	285.00
O-DCDA-1		0.00	102.00	
I-DCDA-2		0.00	120.00	
J-1		0.00	125.00	
J-2		0.00	125.00	
J-3		0.00	126.00	
J-4		12.50	101.00	
J-6		0.00	100.00	
J-7		0.00	105.00	
J-8		0.00	101.00	
J-9		0.00	98.00	
J-10		0.00	98.00	
J-11		0.00	100.00	
J-13		0.00	103.00	
J-14		0.00	123.00	
J-15		0.00	105.00	
J-17		0.00	99.00	
J-18		12.50	125.00	
J-19		0.00	125.00	
I-DCDA-1		0.00	102.00	
O-DCDA-2		0.00	120.00	

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT
MAXIMUM AND MINIMUM PRESSURES = 3
MAXIMUM AND MINIMUM VELOCITIES = 3

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(P) = 23
NUMBER OF END NODES .....(J) = 18
NUMBER OF PRIMARY LOOPS .....(L) = 5
NUMBER OF SUPPLY NODES .....(F) = 1
NUMBER OF SUPPLY ZONES .....(Z) = 1

==========

==========

Case: 1

C H A N G E S F O R N E X T S I M U L A T I O N (Change Number = 1)

Maximum Day plus 1,500 gpm Fire Flow Scenario
1,500 gpm at Node 15

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.30242E-04

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/ 1000 ft/f	HL/ 1000 ft/f
P-1	J-2	Source	-1080.08	0.21	0.00	1.36	0.47	0.47
P-2	J-3	J-13	720.50	6.93	0.00	4.60	11.55	11.55
P-3	J-3	J-18	829.50	3.00	0.00	5.29	14.99	14.99
P-4	J-6	J-15	339.35	1.03	0.15	2.17	3.27	2.86
P-5	O-DCDA-1	J-15	695.50	1.73	1.70	4.44	21.46	10.81
P-7	J-6	J-9	-446.25	0.76	0.13	2.85	5.54	4.75
P-8	J-7	J-6	-106.90	0.11	0.01	0.68	0.38	0.34
P-9	J-7	J-8	-358.26	0.51	0.08	2.29	3.67	3.17
P-10	J-9	J-17	-804.50	1.70	0.29	5.13	16.55	14.16
P-11	J-8	J-9	-211.51	0.38	0.04	1.35	1.32	1.19
P-12	J-8	J-11	-146.75	0.10	0.01	0.94	0.67	0.61
P-13	J-10	J-9	-146.75	0.10	0.01	0.94	0.69	0.61
P-14	J-11	J-10	-146.75	0.19	0.01	0.94	0.64	0.61
P-15	J-4	I-DCDA-1	695.50	0.54	0.51	4.44	21.03	10.81
P-16	J-13	J-4	720.50	2.66	0.00	4.60	11.55	11.55
P-17	J-14	J-3	1550.00	12.88	0.00	9.89	47.71	47.71
P-18	J-15	J-7	-465.15	0.82	0.23	2.97	6.59	5.13
P-20	J-18	I-DCDA-2	804.50	2.69	0.68	5.13	17.76	14.16
P-22	O-DCDA-2	J-17	804.50	2.27	0.68	5.13	18.43	14.16
P-23	J-1	J-14	1550.00	11.93	0.00	9.89	47.71	47.71
P-24	J-1	J-2	-1080.08	16.37	0.00	6.89	24.44	24.44
P-25	Source	J-19	469.92	14.23	0.00	5.33	21.24	21.24
P-26	J-19	J-1	469.92	2.35	0.00	3.00	5.23	5.23

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE gpm	INLET HEAD ft	OUTLET HEAD ft	PUMP HEAD ft	EFFIC- ENCY %	USEFUL POWER Hp	INCREMTL COST $	TOTAL COST $	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. ft	Case
DCDA-1	695.50	130.97	120.42	-10.6	75.00	-2.	-0.1	-0.1	**	**	163.9	1.0000
DCDA-2	804.50	117.24	105.98	-11.3	75.00	-2.	-0.1	-0.1	**	**	150.0	1.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND gpm	HYDRAULIC GRADE ft	NODE ELEVATION ft	PRESSURE HEAD ft	NODE PRESSURE psi
Source		----	285.00			
O-DCDA-1		0.00	222.42	102.00	120.42	52.18
I-DCDA-2		0.00	237.24	120.00	117.24	50.80
J-1		0.00	268.42	125.00	143.42	62.15
J-2		0.00	284.79	125.00	159.79	69.24
J-3		0.00	243.61	126.00	117.61	50.96
J-4		25.00(2.00)	234.03	101.00	133.03	57.64
J-6		0.00	220.16	100.00	120.16	52.07
J-7		0.00	220.04	105.00	115.04	49.85
J-8		0.00	220.63	101.00	119.63	51.84
J-9		0.00	221.05	98.00	123.05	53.32
J-10		0.00	220.94	98.00	122.94	53.27
J-11		0.00	220.73	100.00	120.73	52.32
J-13		0.00	236.68	103.00	133.68	57.93
J-14		0.00	256.49	123.00	133.49	57.85
J-15		1500.00	218.98	105.00	113.98	49.39
J-17		0.00	223.03	99.00	124.03	53.75
J-18		25.00(2.00)	240.61	125.00	115.61	50.10
J-19		0.00	270.77	125.00	145.77	63.17
I-DCDA-1		0.00	232.97	102.00	130.97	56.76
O-DCDA-2		0.00	225.98	120.00	105.98	45.93

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
J-2	69.24	O-DCDA-2	45.93
J-19	63.17	J-15	49.39
J-1	62.15	J-7	49.85

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-17	9.89	P-8	0.68
P-23	9.89	P-12	0.94
P-24	6.89	P-13	0.94

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
Source	1550.00	

NET SYSTEM INFLOW = 1550.00
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 1550.00

==========

Case: 2

C H A N G E S F O R N E X T S I M U L A T I O N (Change Number = 2)

Maximum Day plus 1,500 gpm Fire Flow Scenario
1,500 gpm at Node 11

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

RESULTS OBTAINED AFTER 4 TRIALS: ACCURACY = 0.30322E-06

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/ 1000 ft/f	HL/ 1000 ft/f
P-1	J-2	Source	-1080.08	0.21	0.00	1.36	0.47	0.47
P-2	J-3	J-13	683.07	6.28	0.00	4.36	10.46	10.46
P-3	J-3	J-18	866.93	3.25	0.00	5.53	16.26	16.26
P-4	J-6	J-15	-251.96	0.59	0.08	1.61	1.87	1.65
P-5	O-DCDA-1	J-15	658.07	1.56	1.53	4.20	19.30	9.76
P-7	J-6	J-9	136.15	0.08	0.01	0.87	0.60	0.53
P-8	J-7	J-6	-115.81	0.13	0.02	0.74	0.44	0.39
P-9	J-7	J-8	521.92	1.02	0.17	3.33	7.43	6.35
P-10	J-9	J-17	-841.93	1.85	0.31	5.37	18.02	15.41
P-11	J-8	J-9	-376.31	1.11	0.13	2.40	3.86	3.47
P-12	J-8	J-11	898.23	2.78	0.36	5.73	19.60	17.37
P-13	J-10	J-9	-601.77	1.32	0.23	3.84	9.70	8.27
P-14	J-11	J-10	-601.77	2.65	0.17	3.84	8.81	8.27
P-15	J-4	I-DCDA-1	658.07	0.49	0.46	4.20	18.91	9.76
P-16	J-13	J-4	683.07	2.41	0.00	4.36	10.46	10.46
P-17	J-14	J-3	1550.00	12.88	0.00	9.89	47.71	47.71
P-18	J-15	J-7	406.11	0.64	0.18	2.59	5.10	3.99
P-20	J-18	I-DCDA-2	841.93	2.93	0.75	5.37	19.35	15.41
P-22	O-DCDA-2	J-17	841.93	2.46	0.75	5.37	20.09	15.41
P-23	J-1	J-14	1550.00	11.93	0.00	9.89	47.71	47.71
P-24	J-1	J-2	-1080.08	16.37	0.00	6.89	24.44	24.44
P-25	Source	J-19	469.92	14.23	0.00	5.33	21.24	21.24
P-26	J-19	J-1	469.92	2.35	0.00	3.00	5.23	5.23

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE gpm	INLET HEAD ft	OUTLET HEAD ft	PUMP HEAD ft	EFFIC- ENCY %	USEFUL POWER Hp	INCREMTL COST $	TOTAL COST $	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. ft	Case
DCDA-1	658.07	131.98	121.63	-10.4	75.00	-2.	-0.1	-0.2	**	**	164.9	2.0000
DCDA-2	841.93	116.68	105.15	-11.5	75.00	-2.	-0.1	-0.2	**	**	149.4	2.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND gpm	HYDRAULIC GRADE ft	NODE ELEVATION ft	PRESSURE HEAD ft	NODE PRESSURE psi
Source		----	285.00			
O-DCDA-1		0.00	223.63	102.00	121.63	52.71
I-DCDA-2		0.00	236.68	120.00	116.68	50.56
J-1		0.00	268.42	125.00	143.42	62.15
J-2		0.00	284.79	125.00	159.79	69.24
J-3		0.00	243.61	126.00	117.61	50.96
J-4		25.00(2.00)	234.93	101.00	133.93	58.04
J-6		0.00	219.87	100.00	119.87	51.94
J-7		0.00	219.73	105.00	114.73	49.72
J-8		0.00	218.54	101.00	117.54	50.93
J-9		0.00	219.77	98.00	121.77	52.77
J-10		0.00	218.22	98.00	120.22	52.10
J-11		1500.00	215.40	100.00	115.40	50.01
J-13		0.00	237.33	103.00	134.33	58.21
J-14		0.00	256.49	123.00	133.49	57.85
J-15		0.00	220.54	105.00	115.54	50.07
J-17		0.00	221.94	99.00	122.94	53.27
J-18		25.00(2.00)	240.36	125.00	115.36	49.99
J-19		0.00	270.77	125.00	145.77	63.17
I-DCDA-1		0.00	233.98	102.00	131.98	57.19
O-DCDA-2		0.00	225.15	120.00	105.15	45.56

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
J-2	69.24	O-DCDA-2	45.56
J-19	63.17	J-7	49.72
J-1	62.15	J-18	49.99

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-17	9.89	P-8	0.74
P-23	9.89	P-7	0.87
P-24	6.89	P-1	1.36

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
Source	1550.00	

NET SYSTEM INFLOW = 1550.00
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 1550.00
***** HYDRAULIC ANALYSIS COMPLETED *****

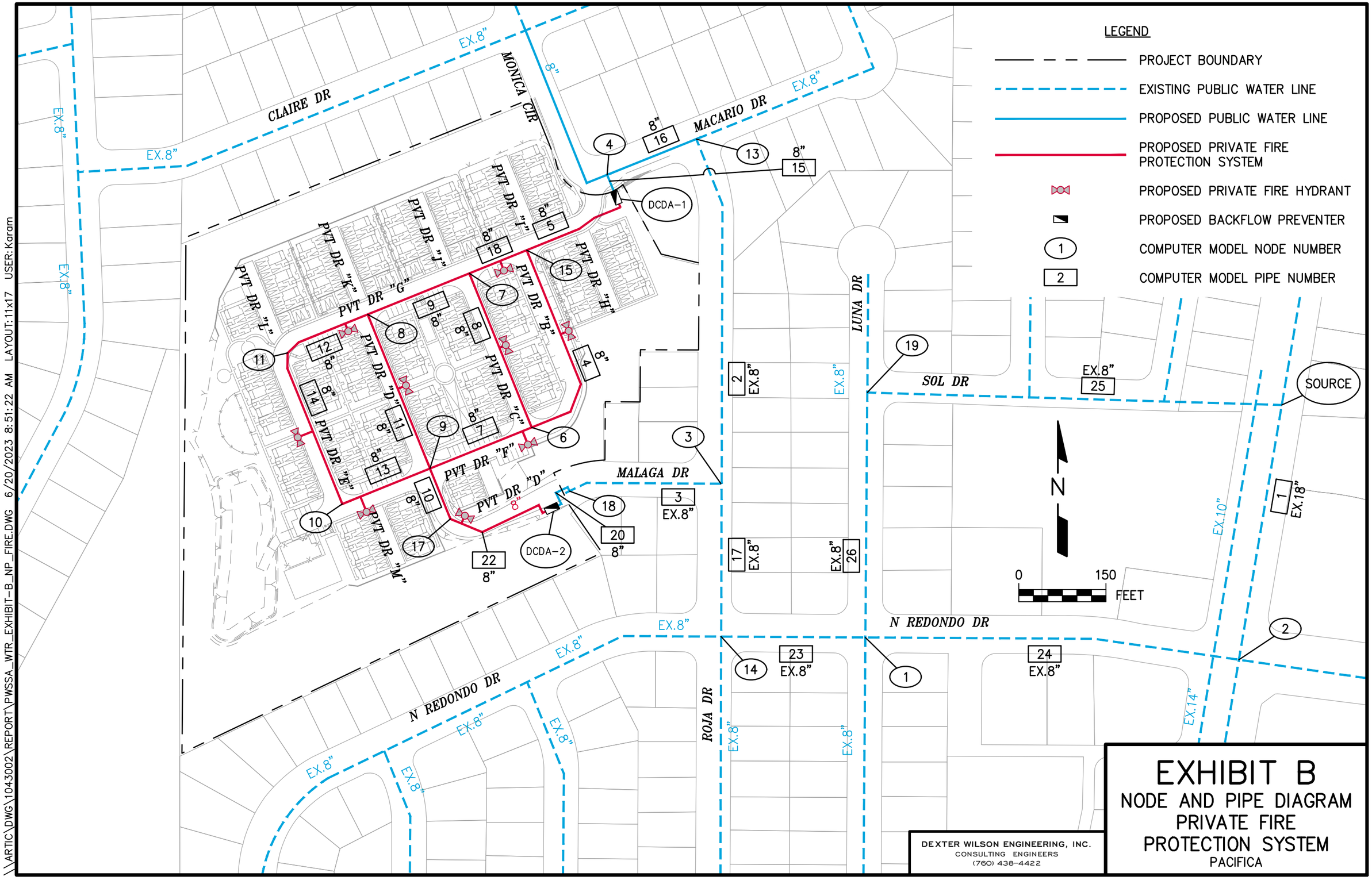

EXHIBIT B
NODE AND PIPE DIAGRAM
PRIVATE FIRE PROTECTION SYSTEM
PACIFICA

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Appendix N
Sewer Service Analysis

DEXTER WILSON ENGINEERING, INC.

WATER • WASTEWATER • RECYCLED WATER

CONSULTING ENGINEERS

SEWER SYSTEM ANALYSIS
FOR THE PACIFICA PROJECT
IN THE CITY OF OCEANSIDE

June 20, 2023

2234 FARADAY AVENUE • CARLSBAD, CA • (760) 438-4422

SEWER SYSTEM ANALYSIS
FOR THE PACIFICA PROJECT
IN THE CITY OF OCEANSIDE

June 20, 2023

6-20-2023

Prepared by:
Dexter Wilson Engineering, Inc.
2234 Faraday Avenue
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Job No. 1043-002

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Sewer Generation Rates....2
Peaking Factors....2
Manning's "n"....4
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APPENDIX C SEWER ANALYSIS RESULTS

EXHIBIT

EXHIBIT A SEWER MANHOLE DIAGRAM

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DEXTER WILSON ENGINEERING, INC.

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June 20, 2023 1043-002

MLC Holdings, Inc.
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

Attention: Johanna Crooker, Director of Forward Planning

Subject: Sewer System Analysis for the Pacifica Project in the City of Oceanside

Introduction and Purpose

The Pacifica project is located in the City of Oceanside southwest of Monica Circle/Macario Drive and west of Roja Drive. Access to the project is from Monica Circle/Macario Drive and Malaga Drive. Sewer service for the Pacifica project will be provided by the City of Oceanside.

The proposed Pacifica project is a residential development on an approximately 14.55-acre parcel (APN 157-070-42 and 122-190-19). It is situated within a previous elementary school site. The proposed project would develop 164 townhome residential units. Finished floor elevations within the project range from a low of 97 feet to a high of 105 feet in elevation.

The purpose of this letter-report is to analyze the existing and proposed sewer system for the Pacifica project and determine if there are any sewer system deficiencies created by the proposed development of this property.

A Vicinity Map for the project is shown on Figure 1 and a preliminary site plan for the project is included in Appendix A.

Sewer System Design Criteria

The design criteria used for the evaluation of the offsite sewerage system impacts by the Pacifica project are based on the City of Oceanside Water Utilities Department, Water, Sewer, and Reclaimed Water Design & Construction Manual, August 2017, Section 3, Sewer Systems Design Guidelines (Design & Construction Manual), and Sewer Master Plan, unless otherwise indicated. A copy of the pertinent sections in the City's Manual and Master Plan where the design criteria is located is attached as Appendix B.

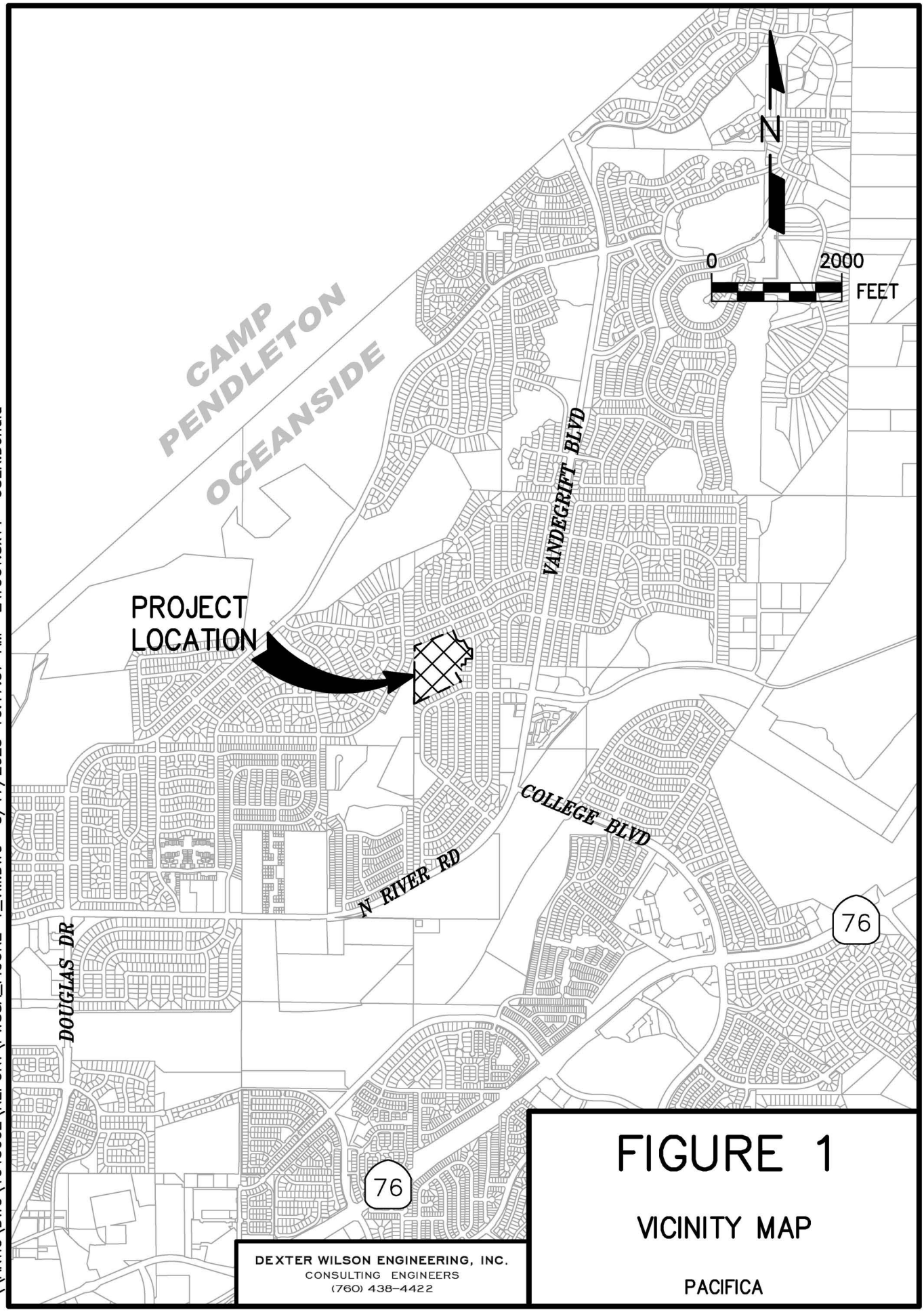
Sewer Generation Rates. The sewer generation rates for the project and surrounding area are presented as Table 1 below.

TABLE 1
PACIFICA PROJECT
CITY OF OCEANSIDE SEWER GENERATION RATES

Land Use	Generation Rate
Low-Density (Single-Family) Residential	170 gpd/DU
Mid-Density (Multi-Family) Residential	140 gpd/DU
Industrial & Commercial	1,000 gpd/ac
Hotels	100 gpd/room

Peaking Factors

The peaking factor for residential development is identified in the City of Oceanside Design & Construction Manual. To convert average dry weather flows to peak wet weather flows, the peaking factors in Table 2 were used.



\\ARTIC\DWG\1043002\REPORT\PWSSA_FIGURE-1_VM.DWG 3/17/2023 10:17:37 AM LAYOUT:8x11 USER:Donald

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
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FIGURE 1

VICINITY MAP

PACIFICA

TABLE 2
CITY OF OCEANSIDE PEAKING FACTORS[1]

Population	Peak Factor
< 500	3.5
500-1000	2.75
1000-5000	2.50

[1] 70 gpd per person

The peaking factor for non-residential flow (i.e. industrial, commercial, hotels, etc.) is given as a formula in the Design & Construction Manual. The formula is stated: $Q_p = 1.84 \times Q_a^{0.92}$, where Q_p equals peak flow in cubic feet per second (cfs) and Q_a equals average flow in cfs.

Manning's "n"

The gravity sewer analyses are prepared using a computer spreadsheet calculation which uses the Manning Equation for all of its calculations. The Manning's "n" used by the computer spreadsheet calculation is held as a constant for all depths in a circular conduit. The value of Manning's "n" used for this study is 0.013 per the City's Design & Construction Manual and Master Plan.

Depth and Velocity of Flow in Gravity Sewers

Gravity sewer lines are designed to convey peak wet weather flow. New sewer pipelines that are 10-inches in diameter and smaller are designed to convey this flow with a maximum depth-to-diameter (d/D) ratio of 0.50. New sewer pipelines that are 12-inches and larger in diameter are designed for a maximum d/D ratio of 0.67. Gravity sewer lines are designed to maintain a minimum velocity of 2.0 feet per second at peak flow to prevent the deposition of solids. Existing sewer pipelines are required to convey the peak wet with a maximum d/D ratio of 1.0.

Onsite Gravity Sewer Lines

For evaluation of the proposed onsite public and private gravity sewer lines, City standards akin to offsite public sewer lines were used. Minimum size and slope are 8-inch diameter and 0.4 percent respectively for all proposed onsite gravity sewer lines.

Existing Sewer System

There are two existing gravity sewer lines that are adjacent to the project site, of which, only one will be utilized to serve the project. The first adjacent sewer line is an 8-inch diameter gravity line that terminates at an existing public sewer lift station (Pacifica School Lift Station). This exiting sewer line and corresponding Pacifica School Lift Station will not be utilized by the project. The existing Pacifica School Lift Station will be removed and corresponding force main will be abandoned and both relocated to a new site within the project area.

The second adjacent sewer line is an 8-inch diameter line in Malaga Drive at the southeastern boundary of the project. This sewer line will be utilized by the project and conveys flow via Roja Drive, Luna Drive, and Redondo Drive southward and ultimately connects to the trunk sewer line in North River Road.

Figure 2 presents the existing public sewer facilities within the project area. Appendix B provides the City's 11" x 17" sewer base map for this area as well as the As-Built Drawings.

Existing Sewer Flows. The sewer system analysis for the Pacifica project will need to take into account sewage flows from existing development that is downstream of the project. The Pacifica project will be a relatively upstream development within this particular stretch of gravity sewer along Malaga Drive, Roja Drive, Luna Drive, and Redondo Drive. Table 3 summarizes the projected sewage flows from existing development.

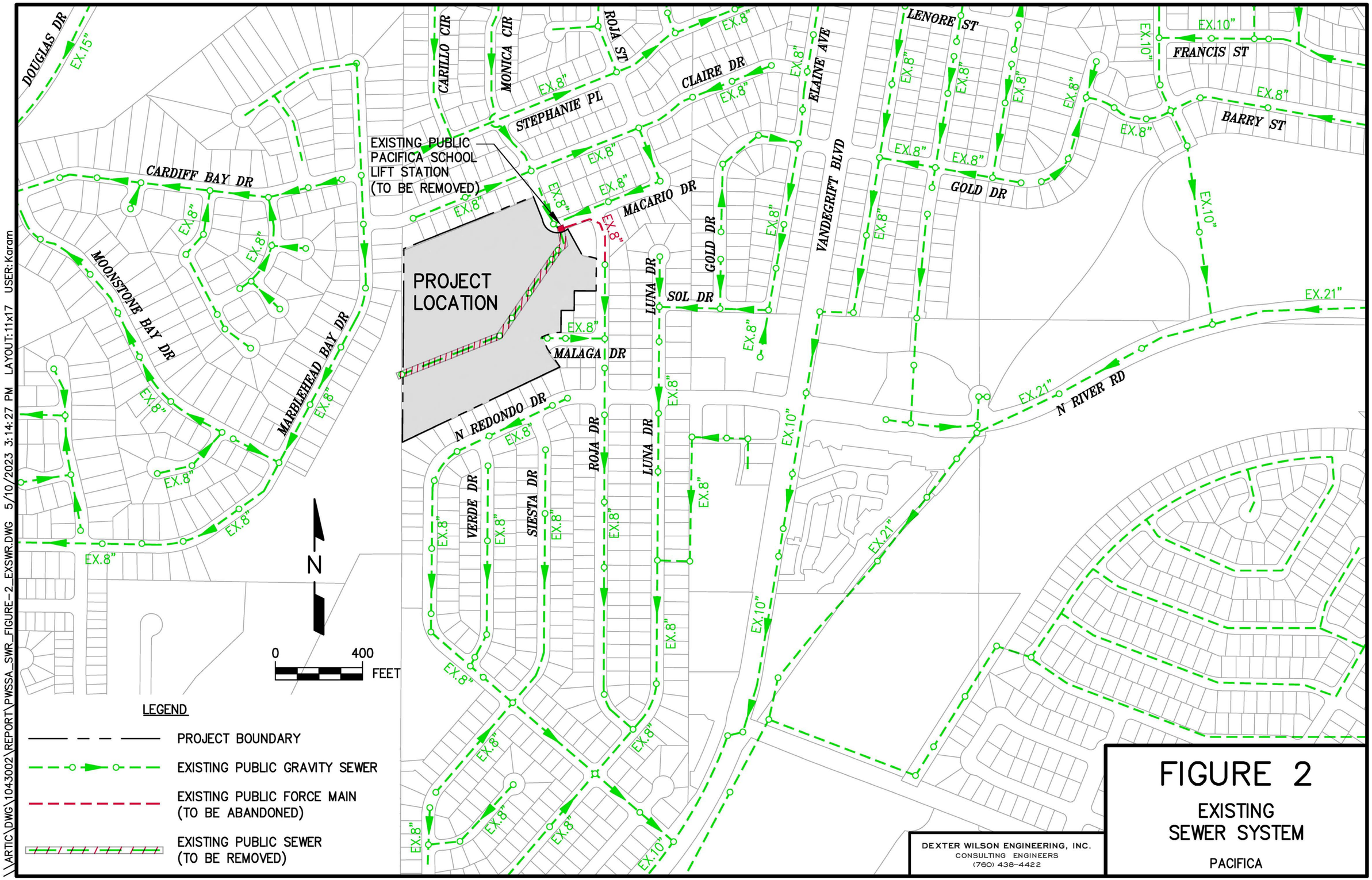


FIGURE 2

EXISTING SEWER SYSTEM

PACIFICA

\\ARTIC\DWG\1043002\REPORT\PWSSA_SWR_FIGURE-2_EXSWR.DWG 5/10/2023 3:14:27 PM LAYOUT:11x17 USER:Karam

TABLE 3
EXISTING SEWER FLOWS ALONG MALAGA DRIVE, ROJA DRIVE, LUNA DRIVE, AND REDONDO DRIVE

Description	Quantity	Generation Factor	Average Sewage Flow
Malaga Drive	4 DUs	170 gpd/DU	680 gpd
Roja Drive	59 DUs	170 gpd/DU	10,030 gpd
Luna Drive	450 DUs	170 gpd/DU	76,500 gpd
Redondo Drive	242 DUs	170 gpd/DU	41,140 gpd
Total Average Flow			**128,350**
Total Peak Flow			**360,400**[1]

[1] Total peak flow includes a peaking factor of 2.5 and the additional 93 single family residences (15,810 gpd average flow) from Pacifica School L.S.

Proposed Sewer Facilities

The projected sewer flow from the Pacifica project is based on 164 townhome units and an average generation rate of 140 gpd per multi-family unit. Table 4 provides the summary of projected sewage flows for the project.

TABLE 4
PACIFICA PROJECTED SEWAGE FLOWS

Description	Quantity	Generation Factor	Average Sewage Flow	Peak Sewage Flow[1]
Multi-Family Residential	164 DUs	140 gpd/DU	22,960 gpd (16 gpm)	80,360 gpd (56 gpm)

[1] Total peak flow includes a peaking factor of 3.5

The project will construct a new public gravity sewer line as well as a private gravity collection system onsite that will all flow to a new sewer lift station to be located on the southwest corner of the site. The new public sewer lift station will pump eastward to the existing 8-inch public gravity sewer stub at Malaga Drive.

An additional offsite gravity sewer segment is proposed to be constructed by the Pacifica project at the Redondo Drive and North River Road intersection. Per City comment and direction, this new sewer segment is a realignment that will remove two 90-degree bends.

Onsite Sewer Lift Station. The new onsite sewer lift station will be designed and constructed as a public facility contingent when the existing public Pacifica School Lift Station is removed. The new onsite sewer lift station will be a public facility serving the proposed Pacifica project and existing upstream development that is currently being served by the Pacifica School Lift Station.

The design parameters of the new onsite public sewer lift station are shown in Table 5.

TABLE 5
PACIFICA PROPOSED PUBLIC SEWER LIFT STATION

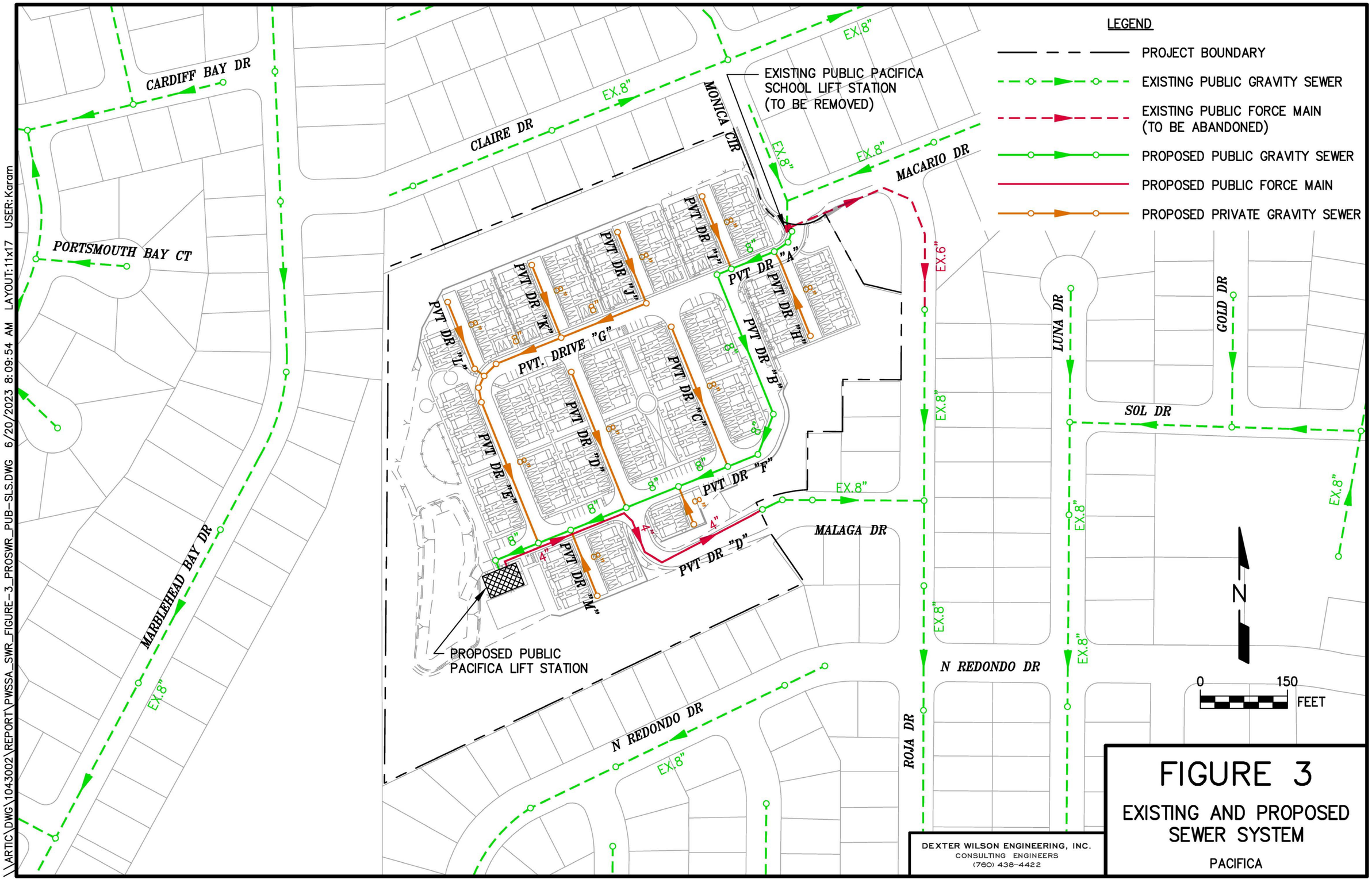
Description	Peak Flow Rate
Public Lift Station	95 gpm[1]

[1] Total peak flow includes the additional peak flow from Pacifica School L.S. tributary area

The lift station will be a duplex submersible pump station, each pump capable of handling the full flow from the project, with either precast concrete or fiberglass wet well, pump control panel, emergency storage basin, and odor control system (if needed).

Based on the flow calculations presented above in Table 5, the peak dry weather flow to the lift station will be 95 gpm. It is recommended to utilize a 4-inch force main to enable adequate solids conveyance. A flow rate of 120 gpm will achieve a velocity of at least 3.0 fps. A 120 gpm design flow rate for the proposed public lift station is recommended to meet the velocity criteria of 3 to 8 fps for sewer forcemains.

The proposed sewer facilities for the Pacifica project are presented on Figure 3. The final configuration of emergency storage, in addition to specific pump, wet well design, odor control, and emergency power will be determined as part of the final design of the sewer lift station. A preliminary sewer lift station layout for Pacifica is shown on Figure 4.



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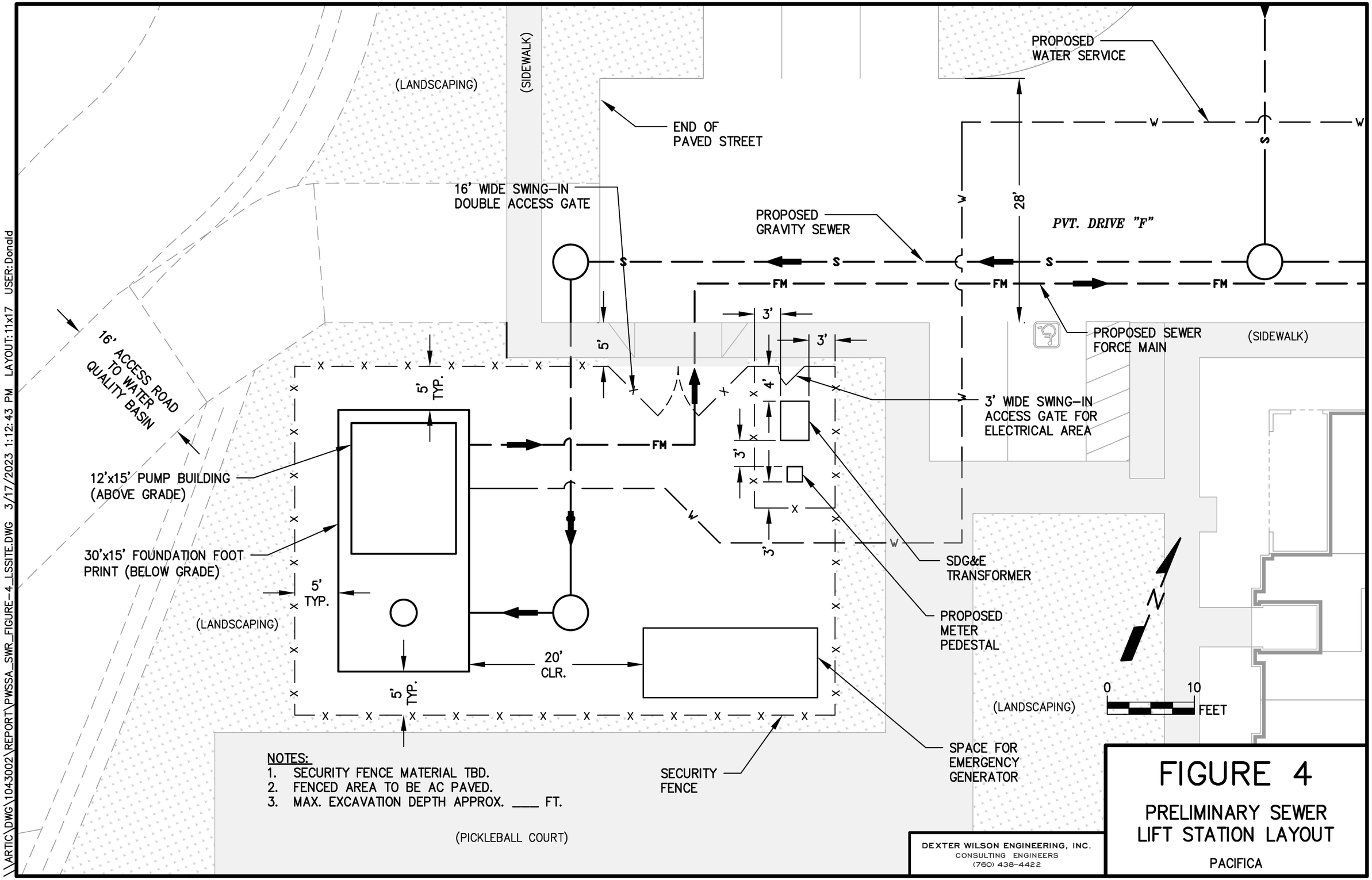
DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

FIGURE 3

EXISTING AND PROPOSED SEWER SYSTEM

PACIFICA



NOTES:
1. SECURITY FENCE MATERIAL TBD.
2. FENCED AREA TO BE AC PAVED.
3. MAX. EXCAVATION DEPTH APPROX. ____ FT.

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

FIGURE 4

PRELIMINARY SEWER LIFT STATION LAYOUT

PACIFICA

\\ARTIC\DWG\1043002\REPORT\PWSSA_SWR_FIGURE-4_LSSITE.DWG 3/17/2023 1:12:43 PM LAYOUT:11x17 USER:Donald

Sewer System Analysis

To analyze the impact of the Pacifica project on the existing sewer system, a hydraulic analysis was conducted up to the existing trunk sewer line in North River Road. Further analysis of the proposed offsite sewer improvement at the Redondo Drive and North River Road intersection and downstream impacts should be performed before the proposed offsite improvement is finalized. Collaboration with the City regarding existing upstream flows should be considered as part of the proposed offsite sewer improvement analysis.

Appendix C provides the hydraulic analysis output and Exhibit A provides the corresponding Sewer Manhole Diagram. To perform this analysis, we obtained As-Built Drawings of the existing sewer system so that the pipe sizes and slopes could be input into the spreadsheet. A key component of the hydraulic analysis is to estimate existing flows within the sewer lines that will be utilized to serve the Pacifica project. Table 3 provided the summary of existing flows from existing offsite downstream development.

Sewer System Analysis Results

Appendix C presents the results of the hydraulic analysis for the Pacifica project. The results indicate that the existing downstream system has adequate capacity to serve the project (less than 1.0 d/D ratio). With the additional sewer flow from the Pacifica project, all sections of the existing 8-inch sewer lines will flow at, or less than, a 0.64 d/D ratio during peak flow conditions.

A summary of the impacts to the existing downstream gravity sewer to the proposed Pacifica project is shown below in Table 6.

TABLE 6
PACIFICA PROJECT EXISTING DOWNSTREAM SEWER IMPACTS

Existing Downstream Sewer Section	Maximum d/D Ratio		Minimum Velocity, fps	
	Existing Flow	Existing plus Project Flow	Existing Flow	Existing plus Project Flow
8-inch Diameter	0.50	0.64	0.4	2.0

Conclusions and Recommendations

The following conclusions have been made related to providing sewer service to the Pacifica project.

1. The 164-unit Pacifica project can receive sewer service by connecting to a public 8-inch diameter gravity sewer stub in Malaga Drive and connecting to the existing system.

2. Figure 2 provides the existing sewer facilities surrounding the project area.

3. The development of the project is projected to result in an average sewage flow of 22,960 gpd.

4. The project will construct a new public gravity sewer line as well as a private sewer collection system onsite. The onsite collection system will also include a new public sewer lift station which will pump to the proposed connection point at Malaga Road. The new sewer lift station will be a relocation of the existing Pacifica School Lift Station. The new public gravity sewer line constructed onsite will convey flows from the removed existing Pacifica School Lift Station to the new sewer lift station.

5. A sewer system analysis was conducted (see Appendix C) and indicates that all existing downstream sewer lines up to North River Road have adequate capacity to convey peak flows from existing development plus the Pacifica project while maintaining the City required depth-to-diameter ratio of less than 1.0 for existing sewer pipelines. Exhibit A within Appendix C presents the existing tributary sewer system in the greater project vicinity.

6. An additional offsite gravity sewer segment is proposed to be constructed by the Pacifica project at the Redondo Drive and North River Road intersection. Per City comment and direction, this new sewer segment is a realignment that will remove two 90-degree bends. Further analysis of this connection and downstream impacts should be performed before this offsite improvement is finalized. Collaboration with the City regarding existing upstream flows should be considered as part of the analysis.

7. Figure 3 presents the proposed sewer system in the immediate project vicinity.

8. The proposed private onsite gravity sewer system will be designed according to the California Plumbing Code and/or City of Oceanside design standards to comply with all design criteria (depth, velocity, minimum slope, etc.). Proposed sewer lines for the project are recommended to be SDR-35 PVC.

Thank you for the opportunity to assist you with the sewer system planning for the Pacifica project. If you have any questions regarding the information and conclusions presented in this report, please do not hesitate to call.

Dexter Wilson Engineering, Inc.

Steven Henderson, P.E.

Attachments

SH:NF:ru:ah

APPENDIX A

PRELIMINARY SITE PLAN

NEED TWO STEPS IN BLDG B/C 3' DRIVEWAYS & 5' END DRIVEWAY

SEWER & SD CROSSINGS

MONICA CIR.

MACARIO DR.

ROJA DRIVE

MALAGA DRIVE

PVT. DRIVE "A"

PVT. DRIVE "B"

PVT. DRIVE "C"

PVT. DRIVE "D"

PVT. DRIVE "E"

PVT. DRIVE "F"

PVT. DRIVE "G"

PVT. DRIVE "H"

PROJECT BOUNDARY

FEMA 500 YEAR FLOOD ZONE X
FIRM PANEL #488
EFFECTIVE DATE: 5/16/2012

BASIN BOTTOM AREA = 9,100 SF
TOP OF BASIN ELEV. = 94.0
BASIN BOTTOM ELEV. = 88.0

BASIN BOTTOM AREA = 9,164 SF

EXISTING STORM GRATE WITH FL OF 88.98 TO REMAIN. PROPOSED CONNECTION TO DOWNSTREAM CLEANOUT WITH FL OF 83.3

PROP. RISER

PUBLIC SEWER LIFT STATION. PUBLIC ACCESS & UTILITY ESMT.

PROP. PUBLIC ACCESS & UTILITY ESMT.

PROP. EMERGENCY GATE

CONNECT TO EXIST. CURB

CONNECT TO EXIST. SEWER, 121.28ft

END OF PUBLIC MALAGA DRIVE

6" WATER IN THIS SEGMENT OF PVT. DRIVE "D"

EXIST. 6" ACP WATER

EXIST. 8" ACP WATER

EXIST. STREET LIGHT TO REMAIN

CONNECT TO EXIST. 8" WATER MAIN

CONNECT TO EXIST. STREET IMPROVEMENTS

PROP. CURB & GUTTER AND SIDEWALK

EXIST. SPEED BUMP TO REMAIN

REPLACE EXIST. 8" WATER MAIN WITH 8" PVC MAIN

REPLACE EXIST. CROSS GUTTER

CONNECT TO EX. 24" STORM DRAIN

EXIST. 8" ACP SEWER

EXIST. 6" ACP SEWER

EXIST. 8" ACP FORCE MAIN

EXIST. 8" ACP WATER

EXIST. 6" ACP WATER

EXIST. 8" ACP SEWER TO REMAIN

EXIST. 6" ACP SEWER TO REMAIN

EXIST. 6" ACP WATER TO REMAIN

EXIST. 8" ACP WATER TO REMAIN

EXIST. 8" ACP SEWER TO REMAIN

EXIST. 6" ACP SEWER TO REMAIN

EXIST. 6" ACP WATER TO REMAIN

EXIST. 8" ACP WATER TO REMAIN

EXIST. 8" ACP WATER

EXIST. 6" ACP WATER

EXIST. 8" ACP WATER

EXIST. 8" ACP WATER

EXIST. 8

APPENDIX B

CITY OF OCEANSIDE DESIGN CRITERIA, BASE MAPS, AND AS-BUILT DRAWINGS

SECTION 3 - SEWER SYSTEMS DESIGN GUIDELINES

3.1 GENERAL

A. All sewer system construction shall conform to the most recent edition of the City of Oceanside's Water, Sewer, and Reclaimed Water Design & Construction Manual.

B. If a conflict arises between the requirements in this manual, the order of precedence shall take place:

1. Sections 1-4, Required Notes, & Appendix
2. Standard Drawings
3. Standard Specifications

C. If the standard that is sought does not appear in this Manual, then the following standards shall be utilized in the order listed:

1. State of California Department of Health Services
2. American Water Works Association (AWWA) Standards
3. San Diego County Regional Standard Drawings
4. Standard Specifications for Public Works Construction (SSPWC or "Greenbook"), latest Edition.

Exceptions to this and all other guidelines appearing in this manual may be allowed only upon the approval of the Water Utilities Director.

B. The sewer facilities listed below will require telemetry and control equipment to be incorporated into the design of the facility. The Water Utilities Department will provide specific design requirements when improvement plans are submitted for Plan Check.

1. Treatment Facilities
2. Sewer Lift Stations and force mains
3. Metering Stations

3.2 MAINS

A. Minimum size shall be 8 inches.

B. All mains not meeting the minimum main diameter and material shall be replaced to meet current design requirements. This is applicable for all new commercial, industrial, institutional, and residential developments of four (4) units or more. Where the full replacement length(s) from manhole to manhole along the property frontage length impacts more than one main and significantly exceeds the developed

property(ies) or is deemed in excess of the overall project cost, the developer may pay an in-lieu fee upon the approval of the Water Utilities Director.

C. Slip-lining or replacement of sewer mains 8-inch or larger may be required if the main is determined to be in poor condition per CCTV report.

D. For diameters 10 inches and smaller, maximum depth of flow shall not exceed ½ the diameter. For diameters 12 inches and larger, depth of flow shall not exceed 2/3 the diameter.

E. No vertical or horizontal curves shall be permitted, unless otherwise approved by the Water Utilities Director.

F. The maximum slope of sewer line shall be 14% unless otherwise approved by the Water Utilities Director.

G. If the main and/or lateral is at a depth of 20 feet or more than the type of pipe material must be approved by the Water Utilities Department. Calculations must be provided to the Water Utilities Department to verify that the pipe material will accommodate the design depths.

H. Locations:

1. Alley: Mains shall be offset a minimum of 3 feet from the centerline to clear alley gutter. Separation from waterlines shall be per Oceanside Standard Drawing S-1 and S-1a.

2. Street: Sewer main locations shall be located in center of the street. A minimum 10-foot separation outside of pipe to outside of pipe from waterlines shall be maintained.

3. Streets with 84 feet of right-of-way or more may require special location as approved by the Water Utilities Director.

4. Minimum cover for sewer mains shall be 6 feet below the finished grade, unless otherwise approved by the Water Utilities Director.

I. Minimum Slopes:

A minimum velocity of 2 FPS shall be maintained at peak flow. Where 2 FPS is not attainable, a minimum slope of 1.6% shall be used. When velocities are 2.0 FPS or greater the following design criteria will govern:

Pipe Diameter	Minimum Slope
8 Inch	0.50%
10 Inch and larger	0.40%

J. Demands:

1. Average daily sewer generation rates shall be:

LAND USE	LAND USE CATEGORY	UNITS

Low Density Residential	EA-R, EB-R, SDF-R	170 gpd/EDU
Mid Density Residential	MDA-R, MDB-R, MDC-R, HD-R, UHD-R	140 gpd/EDU
Industrial	LI	1,000 gpd/acre
Commercial	CC, NC, GC, SC, PC, GI, RP-I, CI, PI	1,000 gpd/acre
Hotels		100 gpd/room

Peak daily flows for residential developments, shall be based on a ratio of peak to average flow as shown below:

Population	Ratio of Peak to Average Flow
Less than 500	3.5
500 to 1,000	2.75
1,000 to 5,000	2.50
Greater than 5,000	2.00

3. Peak daily flows for all other uses shall be based on the following formula:

$$Qp = 1.84\ Qa^{.92}$$

Where Qp = Peak Flow in CFS
Qa = Average Flow in CFS

I. Residential area easements shall be constructed by the developer. They shall be fenced on both sides parallel to the easement with a gate at the entrance and the exit. Easements shall be dedicated to the City and maintained by Property Owner with a lock feature.

J. All sewer mains not located within the public right-of-way shall be provided with a minimum 20-foot wide sewer easement. In some special cases, a wider easement may be required; the Water Utilities Director shall determine size. All easements shall be easily accessible to City maintenance equipment with all weather roadways. An access road will be built for trucks and as approved by the Water Utilities Department.

K. All utility easements that contain sewer mains, which will be publicly maintained, shall demonstrate that the largest vehicle within the Sewer Collections Fleet can transverse the streets without damage to both public and private property. The turning radius of this vehicle will be made available upon request.

L. Where water and sewer mains are located within the same easement, the minimum easement size shall be 30 feet wide. All easements shall be easily accessible to the City's maintenance equipment with all-weather access roadways. No trees or structures or building overhang are allowed within the City easements. When easements are located on private properties, the property owner shall keep the easement free and clear of weeds and debris.

M. 3-inch minimum width color coded detector tape marked "SEWER" in 1-½ inch black letters shall be placed on the compacted and graded bedding material one foot above and centered over the sewer main prior to backfilling the trench.

Chapter 6

PLANNING AND EVALUATION CRITERIA

The City's sanitary sewer collection system was modeled and evaluated based on the planning criteria defined in this chapter. The planning criteria address the collection system capacity, acceptable gravity sewer pipe slopes, maximum allowable depth of flow, design velocities, and changes in pipe size.

6.1 GRAVITY SEWERS

Gravity sewer pipe capacities are dependent on many factors. The factors include roughness of the pipe, the chosen maximum allowable depth of downstream flow conditions, and limiting velocity and slope. The following sections describe the factors that account for the determination of existing and future pipeline capacities in the City's collection system.

6.1.1 Manning Coefficient (n)

The manning coefficient 'n' is a friction coefficient that varies with respect to pipe material, size of pipe, depth of flow, smoothness of joints, root intrusion, and other factors. For sewer pipes, the manning coefficient typically ranges between 0.011 and 0.017, with 0.013 being a representative value used for system planning purposes. Due to unknown conditions of existing pipelines, a conservative manning "n" factor of 0.013 was initially used for the evaluation of all existing collection system pipelines. Pipe roughness values were adjusted within the stated typical range during calibration. The evaluation of all proposed pipelines used a manning "n" factor of 0.013.

6.1.2 Flow Depth Criteria (d/D)

The primary criterion used to identify capacity deficient sewers or to size new sewer improvements is the maximum flow depth to pipe diameter ratio (d/D). The d/D value is defined as the depth of flow (d) in a pipe during peak (design) flow conditions divided by the pipe's diameter (D). Based on Carollo's experience, City staff input, and industry standards, the criteria listed in Table 6.1 were used. The following paragraphs explain these criteria in more detail.

6.1.2.1 Flow Depth for Existing Sewers

Maximum flow depth criteria for existing sanitary sewers are established based on a number of factors, including the acceptable risk tolerance of the utility, local standards and codes, and other factors. Using a conservative d/D ratio when evaluating existing sewers may lead to unnecessary replacement of existing pipelines. Conversely, lenient flow depth criteria could increase the risk of sanitary sewer overflows (SSOs). Ultimately, the maximum allowable flow depth criteria should be established to be as cost effective as

possible while at the same time reducing the risk of SSOs to the greatest extent possible. For Oceanside, pipelines were flagged if the d/D exceeded 1.0 (i.e., pipelines that surcharged were flagged).

Table 6.1 Maximum Flow Depth Criteria
Sewer System Master Plan Update
City of Oceanside

Maximum Flow Depth for Existing Sewers	
Peak Wet Weather Flow:	Maximum d/D = 1.0
Maximum d/D for New Sewers	
Pipe Diameter (inches)(1)	Maximum d/D Ratio (during Peak Flows)(1)
10 and smaller	0.50
12 and larger	0.67

Note:
(1) Obtained from City of Oceanside's Design and Construction Manual: Section 3- Sewer Systems; http://www.ci.oceanside.ca.us/gov/water/admin/manual.asp

A capacity deficient sewer (i.e., system bottleneck) raises the hydraulic grade line of upstream sewers, leading to backwater conditions. The greater the capacity deficiency, the higher water levels will surcharge upstream of the bottleneck pipeline (or pipelines). The hydraulic model is used to determine "backwater" pipelines in order to specify which specific pipelines are the actual root causes of the capacity deficiency. Capital projects are proposed to provide greater flow capacity for the deficient sewers, which eliminates the backwater conditions that cause surcharging.

The criteria summarized in Table 6.1 was used to evaluate existing sewers in the collection system as part of this Master Plan. However, should a development project be considered that proposes a change to the current zoning or land use density, a more conservative criteria will be used by the City to conduct the evaluation of available capacity. Should a zoning change be proposed by a development project, the criteria established below for the sizing of new sewers will be used. The City will use the more conservative criteria to provide reserve capacity due to the uncertainly inherent with flow estimations during the planning phases of development projects.

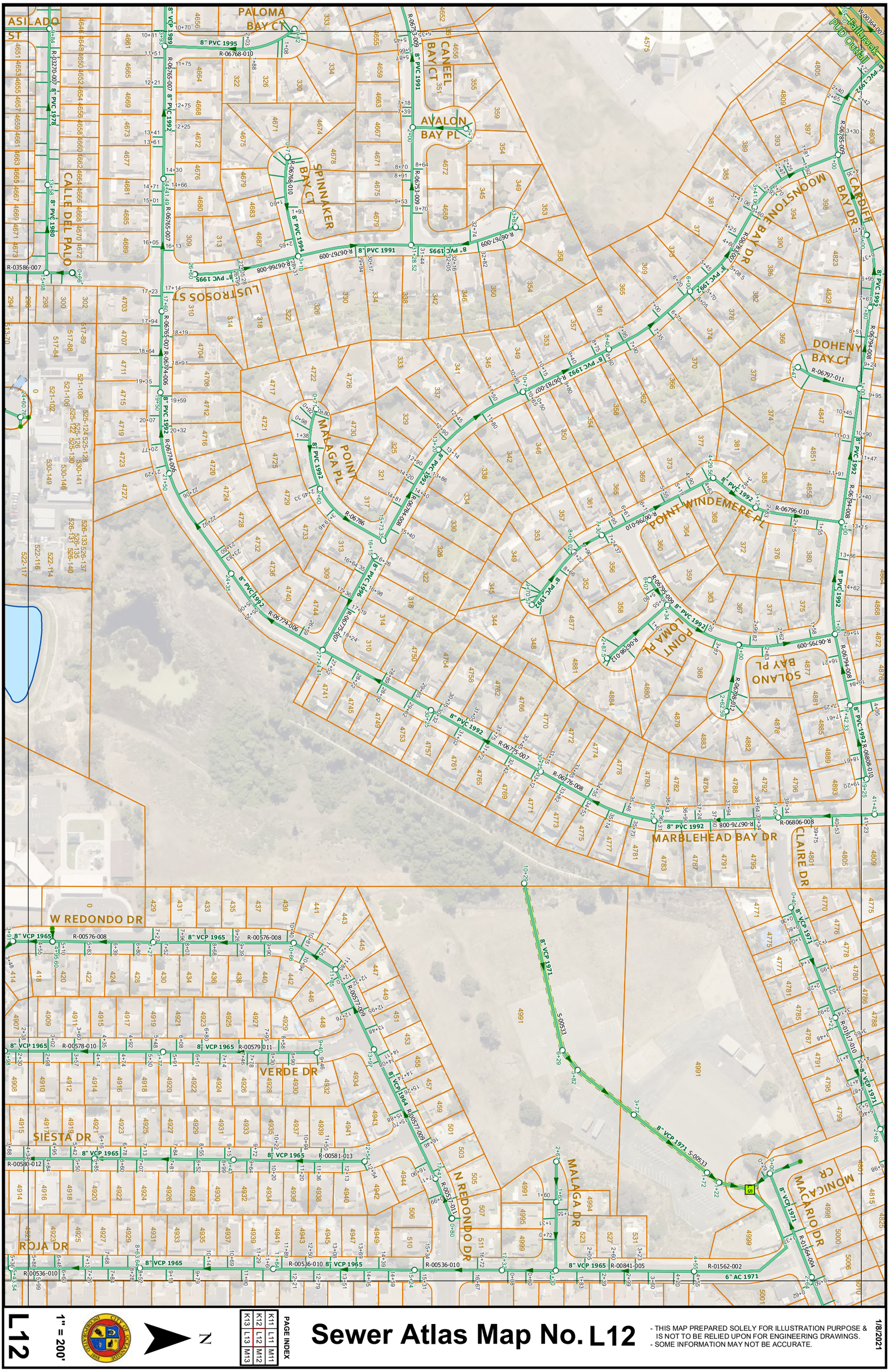
6.1.2.2 Flow Depth for New Sewers

When designing sewer pipelines, it is common practice to adopt different flow depth criteria for various pipe sizes. Design d/D ratios typically range from 0.5 to 0.92, with the lower values typically used for smaller pipes, which may experience flow peaks greater than design flow or blockages from debris, paper, or rags. The City's Water Utilities Department standards for the evaluation of existing sewers and sizing new trunk lines are summarized in Table 6.1. For pipelines 10 inches and smaller in diameter, the max d/D value is 0.5 or

6.2 LIFT STATIONS AND FORCE MAINS

Industry standard practice is to require that sewage lift stations have sufficient capacity to pump peak flows with the largest pump out of service (firm capacity).

Force main piping should be sized to provide a minimum velocity of 3 ft/s at the design flow rate of the lift station and no more than 8 ft/s. For the determination of head loss, the Hazen Williams Equation is used with a C-factor of 120. These factors are typical for sewer system master planning purposes.



Sewer Atlas Map No. L12

L12

1" = 200'

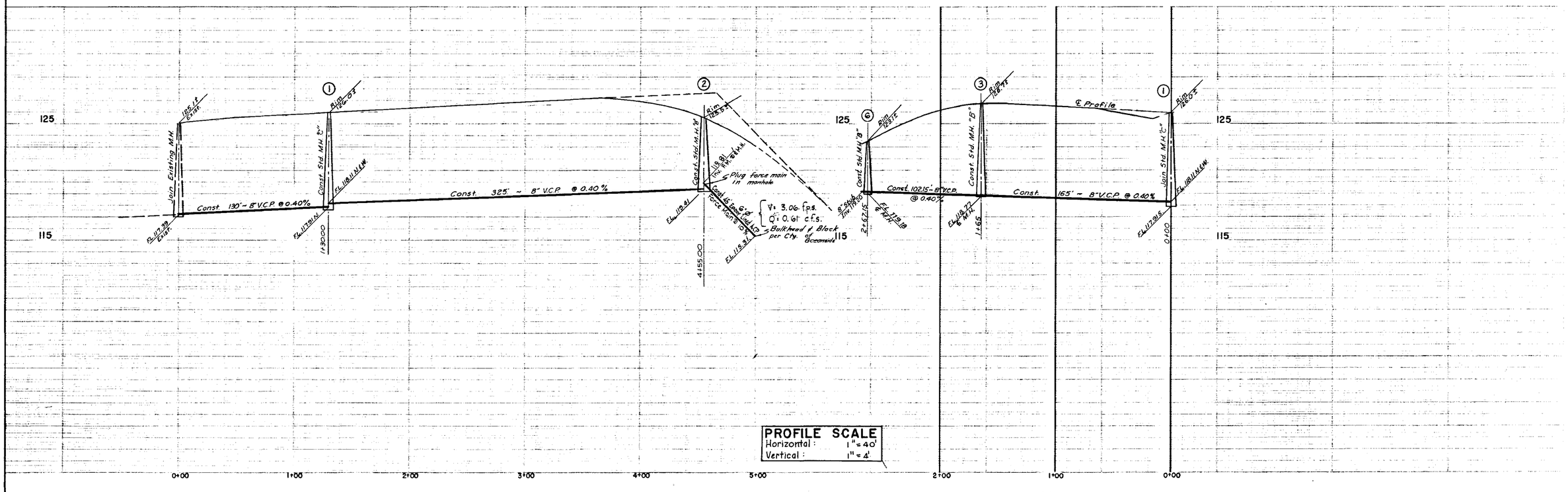
N

K11	L11	M11
K12	L12	M12
K13	L13	M13

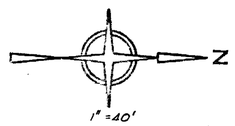
PAGE INDEX

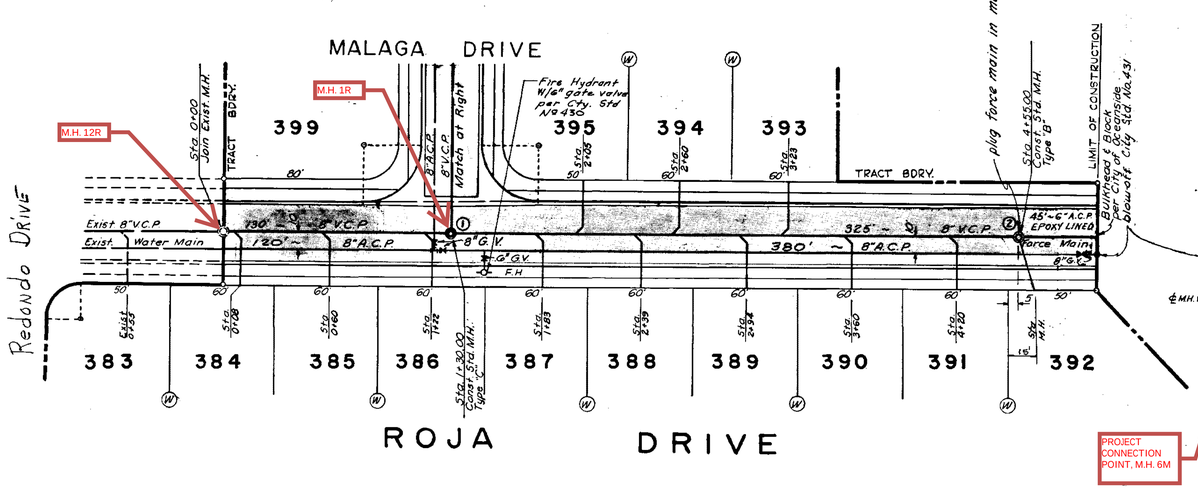
- THIS MAP PREPARED SOLELY FOR ILLUSTRATION PURPOSE & IS NOT TO BE RELIED UPON FOR ENGINEERING DRAWINGS.
- SOME INFORMATION MAY NOT BE ACCURATE.

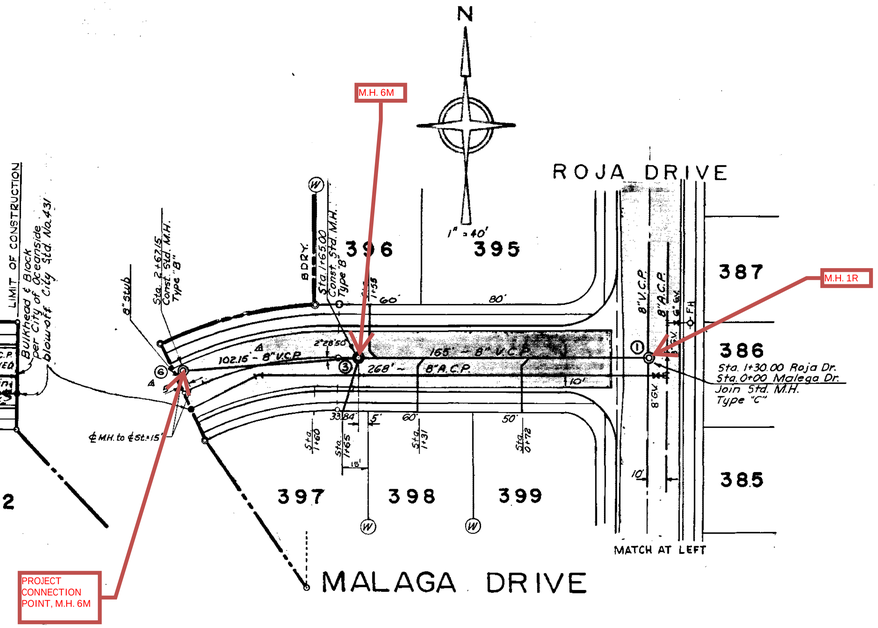
1/8/2021



PROFILE SCALE
Horizontal : 1" = 40'
Vertical : 1" = 4'







PROJECT CONNECTION POINT, M.H. 6M

AS BUILT 4-26-65

REVISED DEC. 15th 1964 BY ROY L. KLEMA, ENGINEERS, INC.
1 ADD MH NO 6 & 102.15'-8" V.C.P. TO MALAGA DRIVE.
REVISION APPROVED Alton J. Ruden DATE: 12-16-1964
CITY ENGINEER

BENCH MARK :
Monument @ N.E. corner Section 4, T-11-S, R-4-W.
Elev. 112.721. U.S.G.S.

PLANS APPROVED BY:

CITY ENGINEER DATE

PLANS SUBMITTED BY:
Paul A. Moote 4/20/64
PAUL A. MOOTE R.C.E. 13706 DATE

MOOTE, KEMPA & GALLOWAY, INC.
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS
SANTA ANA CALIFORNIA

CITY OF OCEANSIDE

PLAN & PROFILES
FOR SEWER & WATER IMPROVEMENTS IN
MISSION VALLEY ESTATES UNIT NO. 4

CITY ENGINEER ALTON L. RUDEN R.E. 10163

Designed R.J.G.	FILE	Date 1-20-64
Checked		Sheet No. 5 OF 6
Approved Alton J. Ruden		No. R-841

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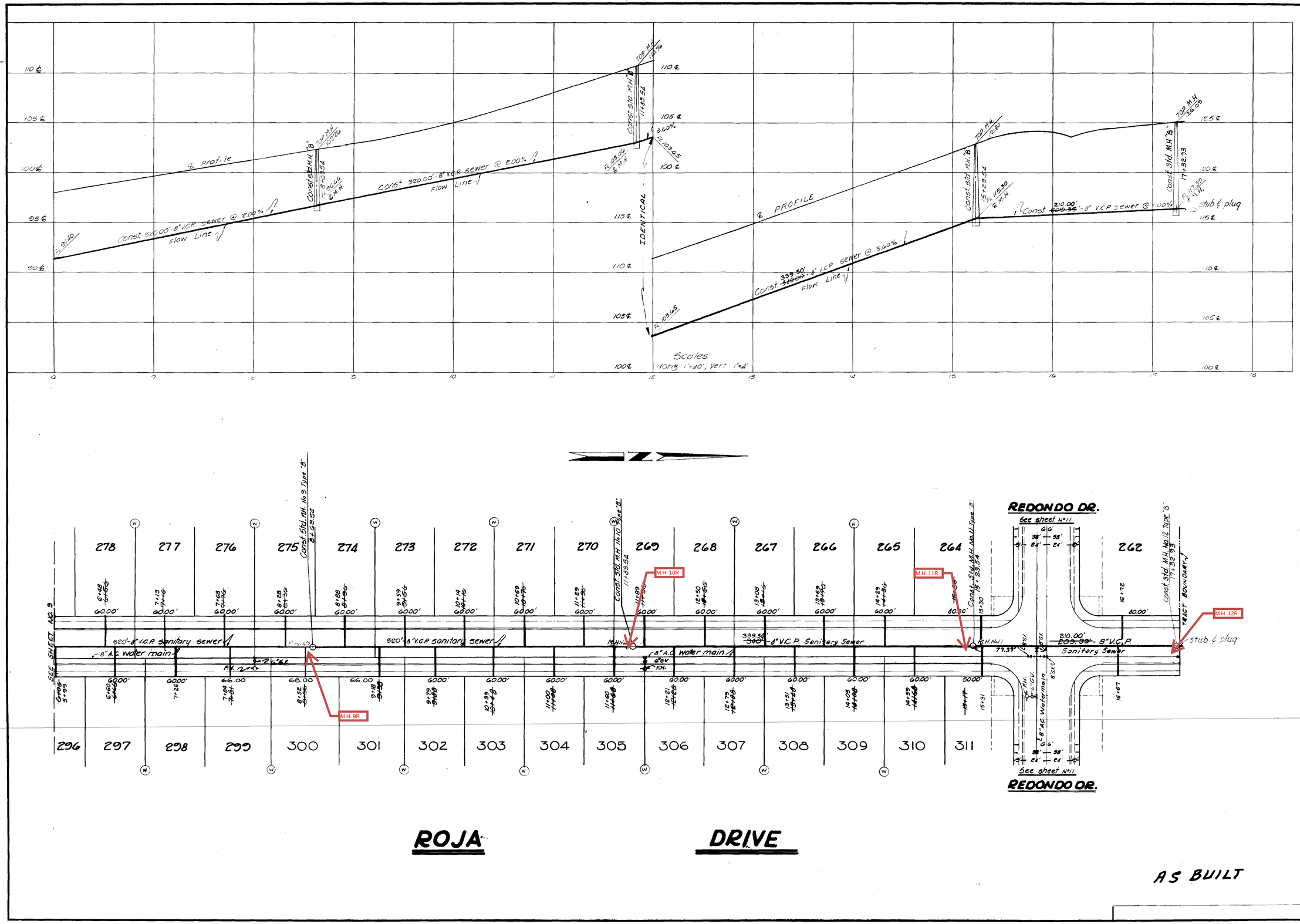
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY



MISSION VALLEY ESTATES No. 3
PART OF W½ N.E.¼ SEC. 4, T.11S. R.4W. S.B.B.&M.
CITY OF OCEANSIDE CALIFORNIA
PREPARED FOR SPROUL DEVELOPMENT CO.

SEWER & WATER MAIN

R. G. KEMPA & ASSOCIATES, INC.
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS
SANTA ANA CALIFORNIA

H. SCALE	1"=40'	DATE	4-5-63
V. SCALE	1"=4'	DRN.	HBOWILLA
F. BOOK		CHD.	
DR. FILE		APPD.	

REVISIONS
Revised Per R.E.L. 10-21-63
REV. AS-BUILT 10-6-64

JOB NO. SA 2047

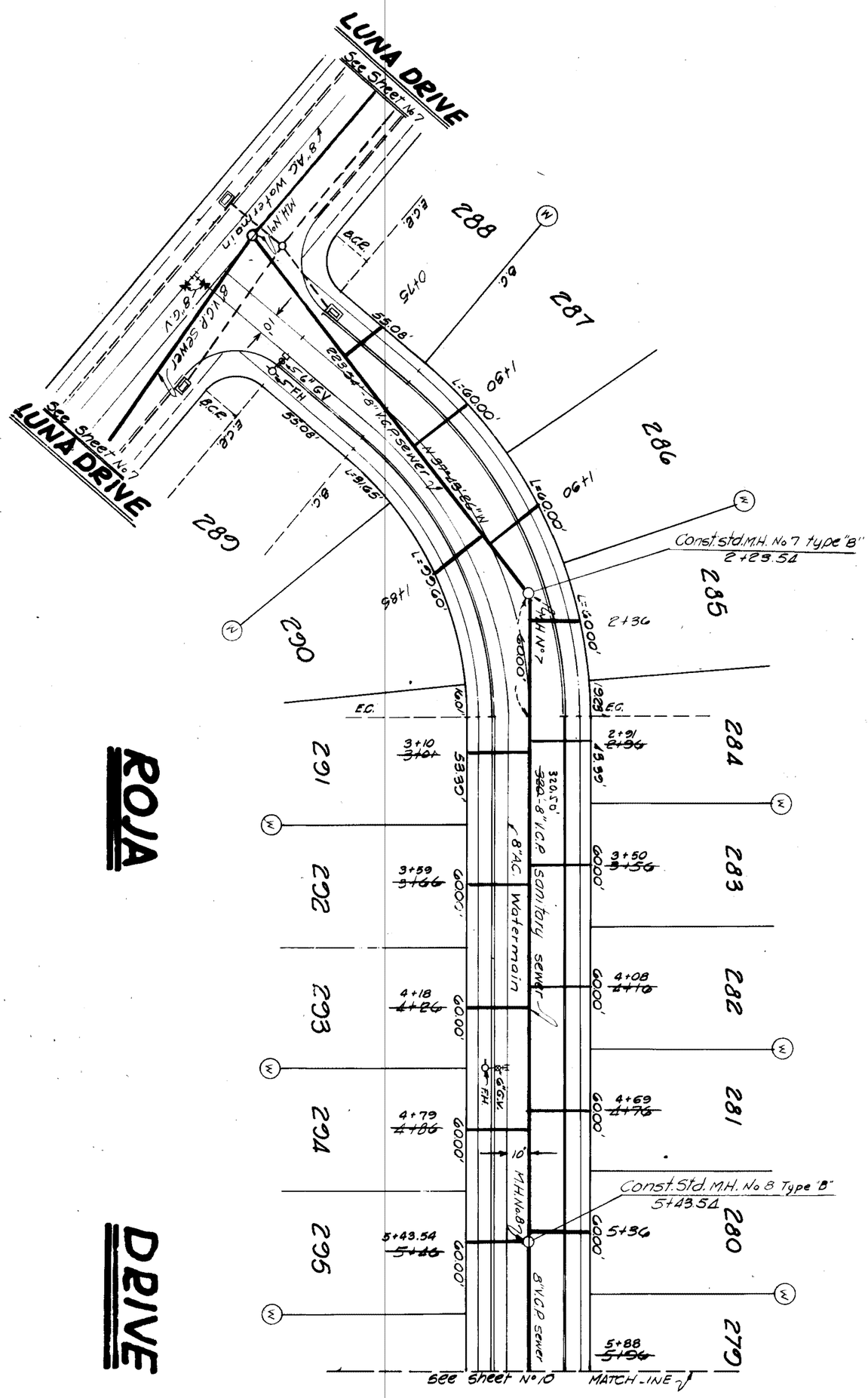
SHEET 10 OF 11

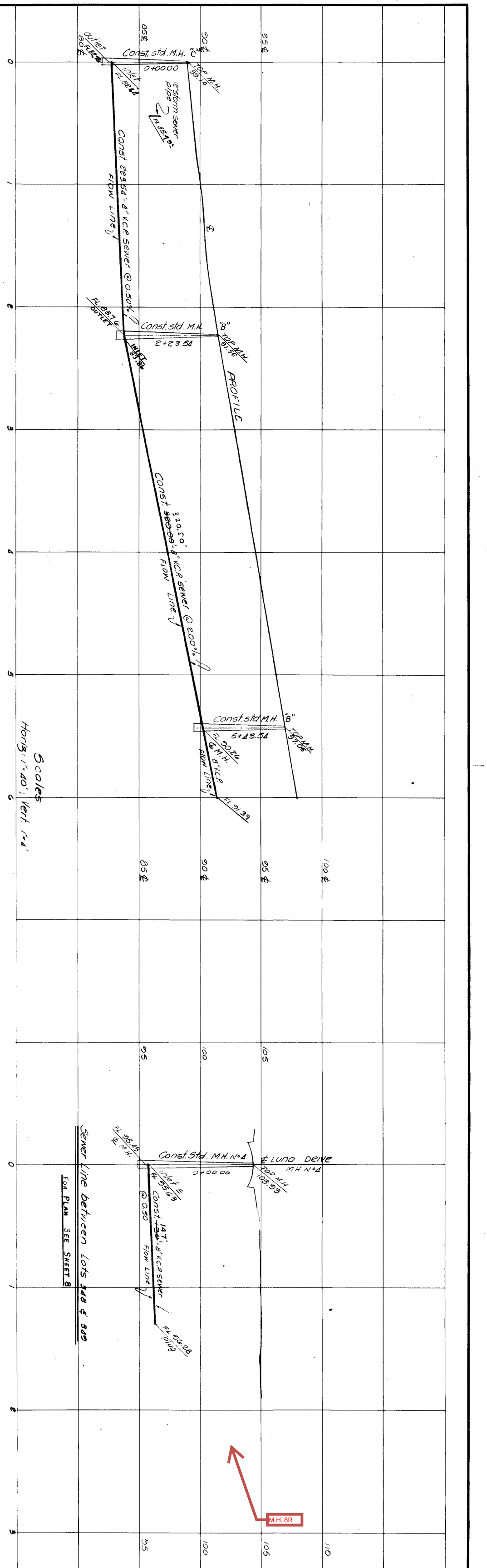
R-536

R-536

R-536

R-536





M.H. 7R

M.H. 1L

AS BUILT

REVISIONS	H. SCALE 1"=40'	DATE 4-5-63	SEWER & WATER MAIN	MISSION VALLEY ESTATES No 3	
REV. AS-BUILT 10-6-64	V. SCALE 1"=4'	DRN H.Bonilla	R. G. KEMPA & ASSOCIATES, INC. CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS SANTA ANA CALIFORNIA	PART OF W. ½ N.E. ¼ Sec. 4, T.11 S. R.4 W. S.B.B. & M. CITY OF OCEANSIDE CALIFORNIA.	
	F. BOOK	CHD.		PREPARED FOR: SPROUL DEVELOPMENT CO.	
	DR. FILE	APPD.			

JOB NO. 2047 | SHEET 9 OF 11 SHEETS

R-535 R-535 R-535 R-535

MISSION VALLEY ESTATES No 3

SEWER & WATER MAIN

R. G. KEMPA & ASSOCIATES, INC.

REV AS-BUILT 10-6-64

JOB 5A 2047

7

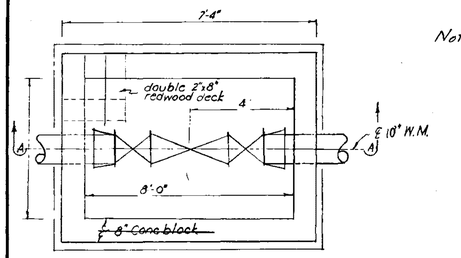
11

AS BUILT

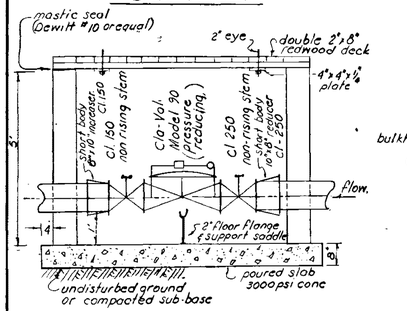
R-533

R-533

R-533



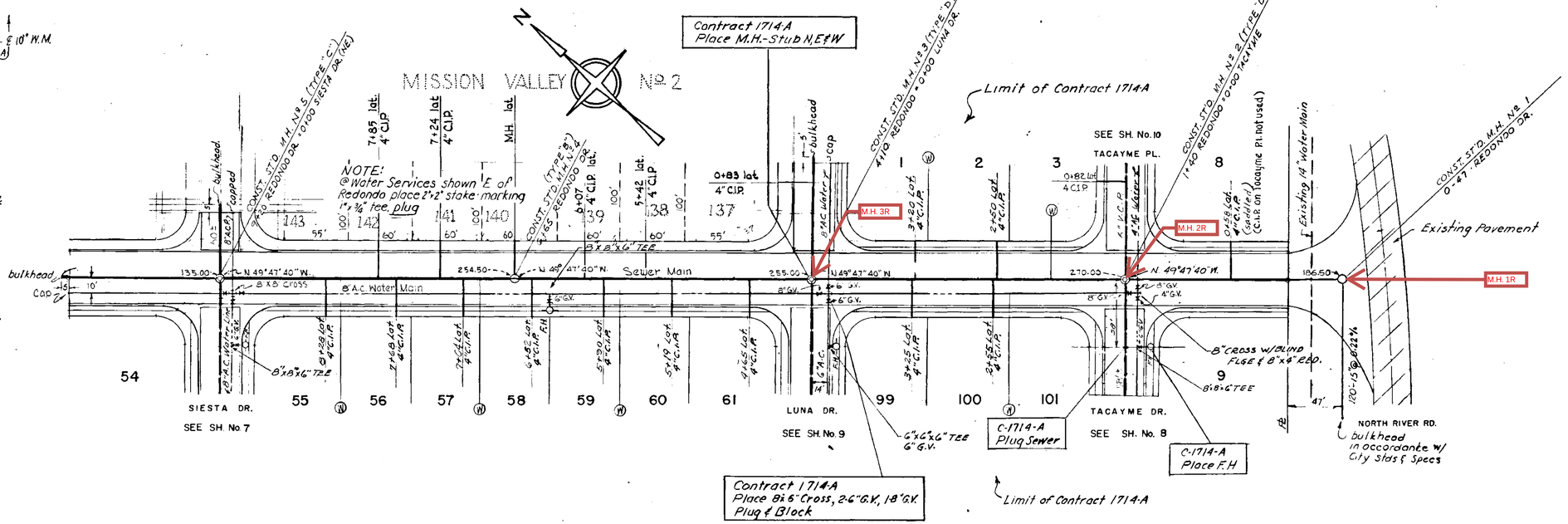
PLAN VAULT



SECTION A-A

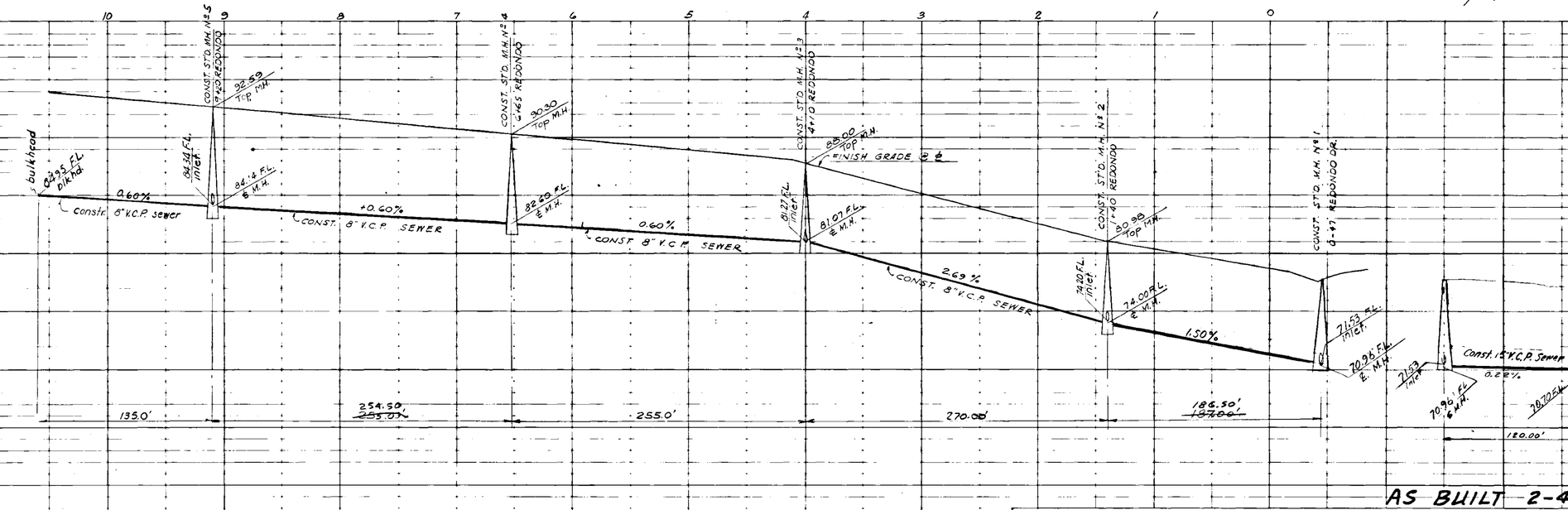
Note: Cla-Val Model 90 (or equal)
Size 8"
Class 250
Max. Flow 1900 g.p.m.

Note: Conc. Block Vault was not built.
Redwood used instead.



REDONDO DRIVE

Approved by Alton S. Ruden A.L. Ruden City Engineer date Jan 30, 1963



AS BUILT 2-4-64

SEWER & WATER PLAN- PROFILE

2-3-64 REV. P/CITY ENG. J.S.
As Built per City 10/8/63
3 Out Fall Sewer
2 Water Service Elev
1 Per City, Jan. 8, 1963
REVISIONS

MISSION VALLEY ESTATES
Part of W½ NE¼ Section 4, T.11S. R.4W. S.B.B. & M.
CITY OF OCEANSIDE, CALIFORNIA.
CLIENT: SPROUL HOMES INC.

DATE 12-17-62
DWN JS
CHD. RMG
SCALE V. 1" = 5' H. 1" = 50'
SHEET 11 OF 12
F.B.
FILE 3-1
JOB NO. C1714

R. G. KEMPA & ASSOCIATES.
CIVIL ENGINEERS AND LAND SURVEYORS
COSTA MESA, CALIFORNIA.

R-756

DRAWING NUMBER R-756
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REPRODUCTION OF THIS DRAWING IS PROHIBITED

PLATE I—PLAN PROFILE R. P. & STANDARD
THE FRIEDRICH KOEF CO., CHICAGO

MATCH LINE SHEET No. 3
9+30.13 F.L. 75.81

78.9 F.L.

395.69 (OVERALL) - 10" V.C.P. 1.266 %

12.9' INLET PLUGGED 15" N.E.LY

78.31 INLET

M.H. No. 2 TYPE "C"
6+66.49
71.98 INV.

81.71

72.37 OUTLET

72.20 INLET

350.88' 15" V.C.P. 0.24%

73.02 8" PLUGGED STUB NORTH

72.48 OUTLET

6+50.39

79.95

EXISTING FINISH GRADE

278.96' 276'-15" V.C.P. 0.24%

M.H. No. 1 TYPE "B"
3+67.53
71.76 INV.

79.10

71.66 OUTLET

277.70' 275.81'-15" V.C.P. 0.24%

75.1' F.L.

74.4

71.00 INLET

79.05

EXIST. M.H. CONNECTION POINT
0+85.83

PROFILE SCALES:
HORIZ: 1" = 40'
VERT: 1" = 5'

10 9 8 7 6 5 4 3 2 1 0

90 80 70

SEE SHEET No. 3

MURRAY ROAD

7+28.69 BK
7+30.18 AHD
M.H. No. 3

P.P. # 143301

P.P. # 752252

NORTH RIVER ROAD

PLUGGED 15" STUB

P.P. # 31785

BERM

P.P. # 464276H

TOP OF BANK

4" X 4" POST & SIGN

"STOP" SIGN

399.69' (OVERALL)

N 11° 10' 55" E

MATCH LINE 9+30.13

S 89° 02' 05" E 94.80'

S 89° 02' 05" E 18.20'

N 22° 52' 55" E 282.96'

WN 22° 47' 06" E 280.00'

6+45.64
M.H. No. 2

PLUGGED 8" STUB N.

6+50.49

℄ VANDEGRIFT BOULEVARD

N 32° 30' 55" E 281.70'

N 32° 34' 10" E 279.81'

3+67.53
M.H. No. 1

EXIST. 24" R.C.P.

EDGE OF OIL

TOP OF BANK

4 GAS VALVE COVERS

EXIST. 15" V.C.P. PER CITY OF O'SIDE DRG. R-756

EXIST. M.H.

EXIST. 27" R.C.P.

0+85.83 EXISTING M.H.

℄ REDONDO DRIVE

122+59.83 ℄ REDONDO DR

0+00 EXIST. M.H.

"AS BUILT"

SCALE: 1" = 40'

PREPARED BY:
E. BRIAN SMITH ENGINEERS
528 SOUTH HILL STREET
OCEANSIDE, CALIFORNIA

E. Brian Smith
REG. CIVIL ENGINEER No. 13,817

SHEET 2	CITY OF OCEANSIDE ENGINEERING DEPARTMENT	4 SHEETS

PLAN & PROFILE
SEWER IMPROVEMENT OF
VANDEGRIFT BOULEVARD

APPROVED: Otten J. Rudow
CITY ENGINEER

DATE: 4-2-69

SCALES:
HORIZ: AS SHOWN
VERT: AS SHOWN

DRAWN. BY: HP
CHK'D BY: H.L.T.
F.B. L.B.

REVISED	DATE	O.K.

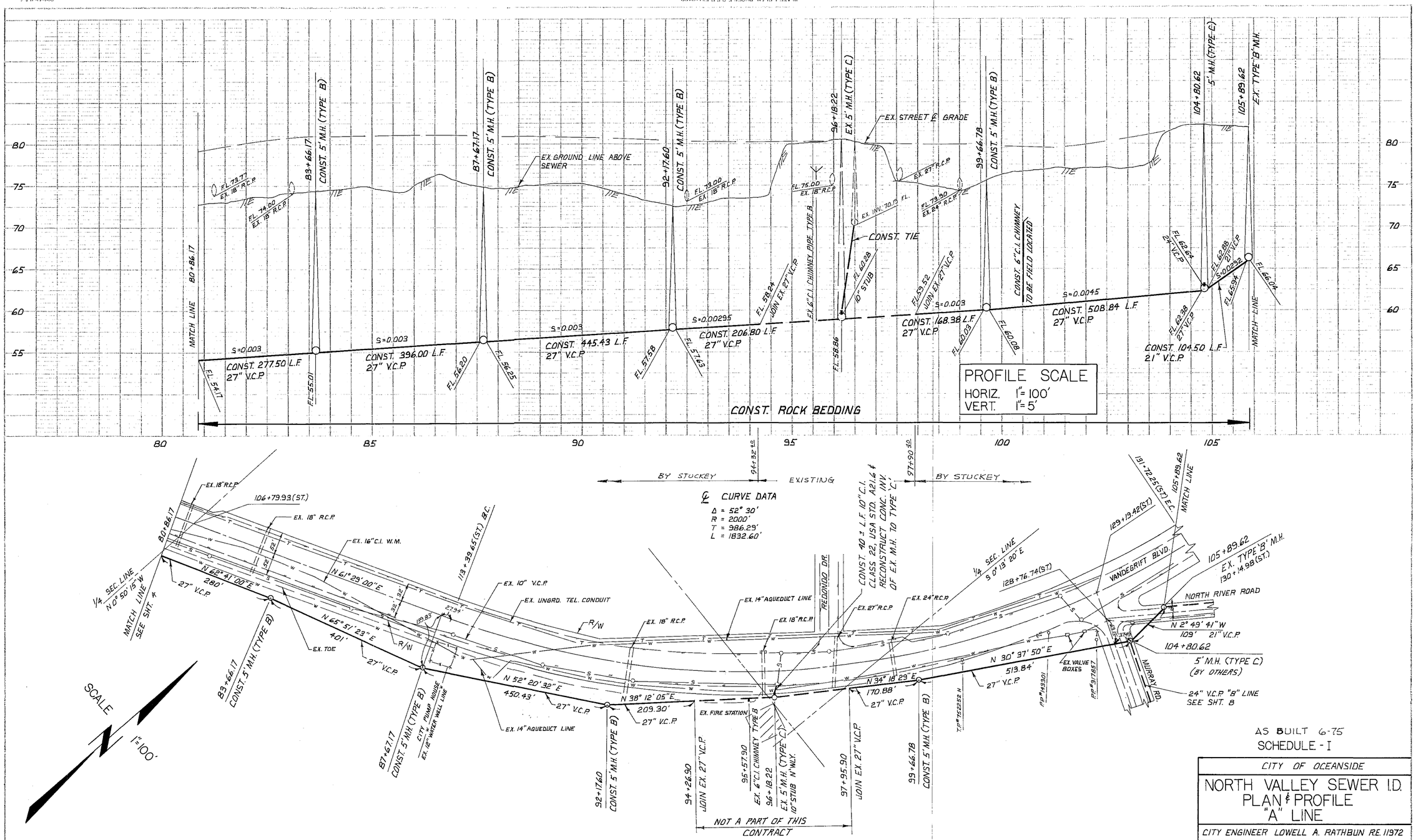
DRAWING NO. S-491

2-2862

PROFILE
SURVEYED
COMPUTED
GRADES CHECKED
B. M.'S NOTED
STRUCTURE POINTS STAKED
NOTE BOOK
NO.
BY
DATE

PLAN
SURVEYED
COMPUTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

DRAWING NUMBER
S-491



AS BUILT 6-75
SCHEDULE - I

CITY OF OCEANSIDE

NORTH VALLEY SEWER I.D.
PLAN & PROFILE
"A" LINE

CITY ENGINEER LOWELL A. RATHBUN RE. 11972

DESIGNED J.R.C. L.W.H.	APPROVED 1-18-74 Lowell A. Rathbun
DRAWN P.J.P.	SHT. 5 OF 17
DATE 1-16-74	S-617
CHECKED J.B.G.	

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

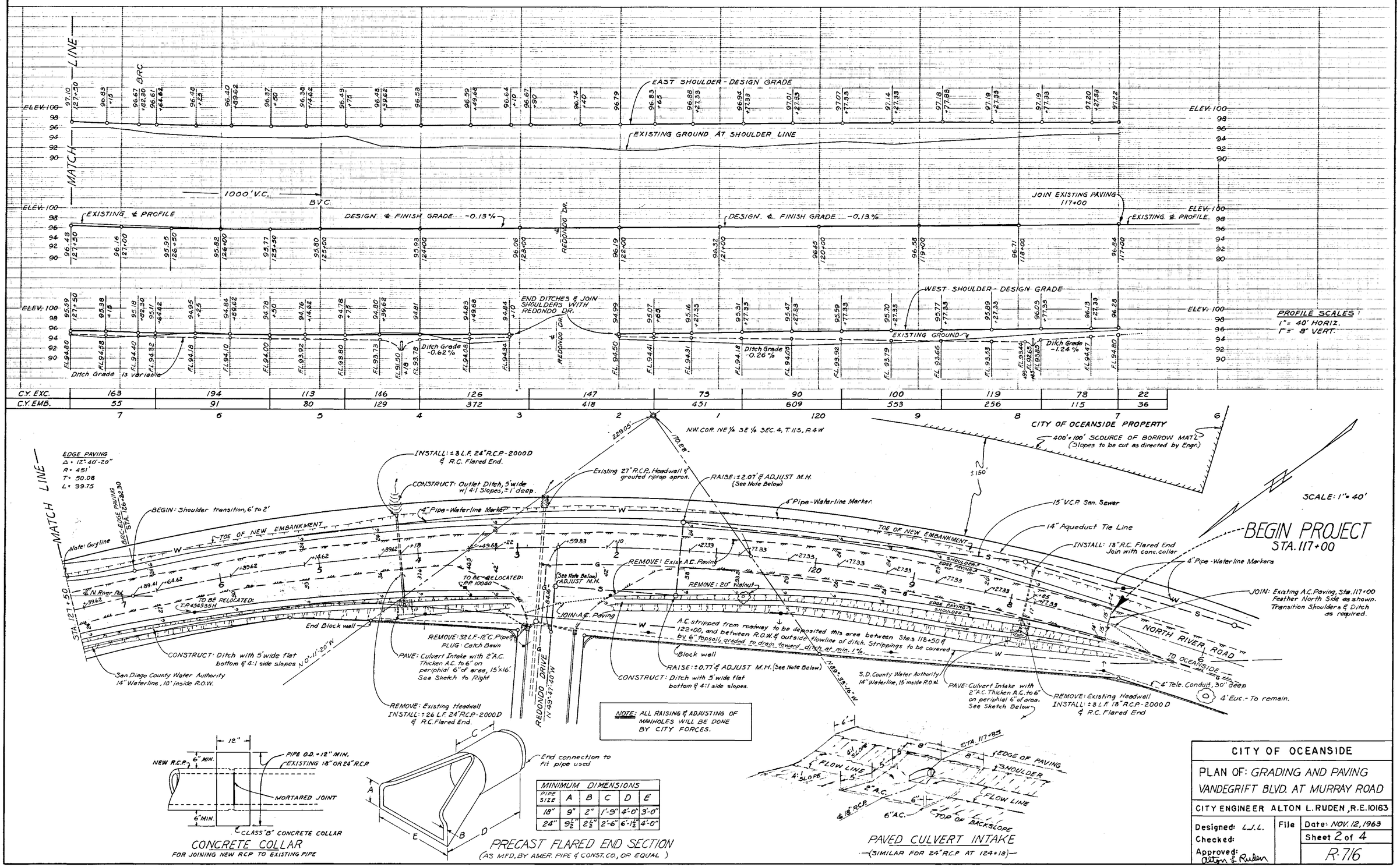
DRAWING NUMBER
S-617
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER R-716

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

RECORD OF NUMBER TODAY

PRINTS FILED IN THIS BOOK



CITY OF OCEANSIDE		
PLAN OF: GRADING AND PAVING VANDEGRIFT BLVD. AT MURRAY ROAD		
CITY ENGINEER ALTON L. RUDEN, R.E. 10163		
Designed: L.J.L.	File	Date: NOV. 12, 1963
Checked:		Sheet 2 of 4
Approved: Alton L. Ruden		R-716

APPENDIX C

SEWER ANALYSIS RESULTS

The following conditions were modeled for the Pacifica Project:

1. Existing Flows

2. Existing Plus Project Flows

- Exhibit A – Manhole Diagram

DATE: 6/19/2023

SEWER STUDY SUMMARY

FOR: Pacifica in the City of Oceanside - Existing Flows

SHT 1 OF 2

JOB NUMBER: 1043-002

BY: Dexter Wilson Engineering, Inc.

REFER TO PLAN SHEET: Exhibit A

FROM	TO	IN-LINE LOW DEN RES. EDUs	IN-LINE MID DEN RES. EDUs	AVG. RES DRY WEATHER FLOW (gpd)	PEAKING FACTOR RES.	PEAK FLOW RES. (gpd)	IN-LINE COM/IND ACRES	TOTAL COM/IND ACRES	AVG. COM/IND DRY WEATHER FLOW (gpd)	PEAKING FACTOR COM/IND	PEAK FLOW COM/IND (gpd)	COMBINED PEAK FLOW (DESIGN FLOW)		LINE SIZE (inches)	AS-BUILT SLOPE (%)	DEPTH K' [1]	dn (feet)	dn/D[2]	C_a for Velocity[3]	VELOCITY (f.p.s.)	COMMENTS
												M.G.D.	C.F.S.								
6M	3M	2	0	340	3.50	1,190	0.0	0.0	0	0.00	0	0.001	0.002	8	0.40	0.001116	0.02667	0.04	0.0105	0.39	
3M	1R	2	0	680	3.50	2,380	0.0	0.0	0	0.00	0	0.002	0.004	8	0.40	0.002232	0.03333	0.05	0.0147	0.56	
1R	12R	9	0	18,020	3.50	63,070	0.0	0.0	0	0.00	0	0.063	0.098	8	0.40	0.059142	0.16000	0.24	0.1449	1.52	Pacifica L.S. Connection Point
12R	11R	4	0	18,700	3.50	65,450	0.0	0.0	0	0.00	0	0.065	0.101	8	1.00	0.038816	0.13333	0.20	0.1118	2.04	
11R	10R	13	0	20,910	3.50	73,185	0.0	0.0	0	0.00	0	0.073	0.113	8	3.60	0.022876	0.10000	0.15	0.0739	3.45	
10R	9R	10	0	22,610	3.50	79,135	0.0	0.0	0	0.00	0	0.079	0.122	8	2.00	0.033186	0.12000	0.18	0.0961	2.87	
9R	8R	8	0	23,970	3.50	83,895	0.0	0.0	0	0.00	0	0.084	0.130	8	2.00	0.035182	0.12667	0.19	0.1039	2.81	
8R	7R	11	0	25,840	3.50	90,440	0.0	0.0	0	0.00	0	0.090	0.140	8	2.00	0.037927	0.12667	0.19	0.1039	3.03	
7R	1L	4	0	26,520	3.50	92,820	0.0	0.0	0	0.00	0	0.093	0.144	8	0.50	0.077850	0.18667	0.28	0.1800	1.80	
1L	3R	450	0	103,020	2.50	257,550	5.7	5.7	5,700	2.69	15,313	0.273	0.422	8	0.50	0.228857	0.33333	0.50	0.3930	2.42	Luna Drive Connection
3R	2R	133	0	125,630	2.50	314,075	10.4	16.1	16,100	2.47	39,804	0.354	0.548	8	2.69	0.127963	0.24000	0.36	0.2546	4.84	Redondo Drive Connection
2R	1R	109	0	144,160	2.50	360,400	0.0	16.1	16,100	2.47	39,804	0.400	0.619	8	1.50	0.193794	0.30000	0.45	0.3428	4.06	Connection to N. River Road Trunk Sewer

Total Res. Units
755

Total Com/Ind
16.1

Min Slope
0.40

Max Slope
3.60

Min dn/D
0.04

Max dn/D
0.50

Min Vel
0.39

Max Vel
4.84

RES. = Residential
COM. = Commercial
IND. = Industrial
Note: 1 Low Density Res. = 170 gpd
1 Mid Density Res. = 140 gpd
1 Commercial/Industrial Acre = 1,000 gpd

1 K' based on n = 0.013
2 dn/D using K' in Brater King Table 7-14
3 From Brater King Table 7-4 based on dn/D

DATE: 6/19/2023

SEWER STUDY SUMMARY

FOR: Pacifica in the City of Oceanside - Existing plus Proposed Flows

SHT 2 OF 2

JOB NUMBER: 1043-002

BY: Dexter Wilson Engineering, Inc.

REFER TO PLAN SHEET: Exhibit A

FROM	TO	IN-LINE LOW DEN RES. EDUs	IN-LINE MID DEN RES. EDUs	AVG. RES DRY WEATHER FLOW (gpd)	PEAKING FACTOR RES.	PEAK FLOW RES. (gpd)	IN-LINE COM/IND ACRES	TOTAL COM/IND ACRES	AVG. COM/IND DRY WEATHER FLOW (gpd)	PEAKING FACTOR COM/IND	PEAK FLOW COM/IND (gpd)	COMBINED PEAK FLOW (DESIGN FLOW)		LINE SIZE (inches)	AS-BUILT SLOPE (%)	DEPTH K' [1]	dn (feet)	dn/D[2]	C_a for Velocity[3]	VELOCITY (f.p.s.)	COMMENTS
												M.G.D.	C.F.S.								
6M	3M	2	164	340	N/A	173,395	0.0	0.0	0	0.00	0	0.173	0.268	8	0.40	0.162597	0.27333	0.41	0.3032	1.99	Proposed Project and L.S. Point of Connection (120 gpm, 172,800 gpd peak flow)
3M	1R	2	0	680	3.50	175,180	0.0	0.0	0	0.00	0	0.175	0.271	8	0.40	0.164270	0.27333	0.41	0.3032	2.01	
1R	12R	9	0	2,210	3.50	180,535	0.0	0.0	0	0.00	0	0.181	0.279	8	0.40	0.169292	0.28000	0.42	0.3130	2.01	
12R	11R	4	0	2,890	3.50	182,915	0.0	0.0	0	0.00	0	0.183	0.283	8	1.00	0.108481	0.22000	0.33	0.2260	2.82	
11R	10R	13	0	5,100	3.50	190,650	0.0	0.0	0	0.00	0	0.191	0.295	8	3.60	0.059592	0.16000	0.24	0.1449	4.58	
10R	9R	10	0	6,800	3.50	196,600	0.0	0.0	0	0.00	0	0.197	0.304	8	2.00	0.082447	0.19333	0.29	0.1890	3.62	
9R	8R	8	0	8,160	3.50	201,360	0.0	0.0	0	0.00	0	0.201	0.312	8	2.00	0.084443	0.19333	0.29	0.1890	3.71	
8R	7R	11	0	10,030	3.50	207,905	0.0	0.0	0	0.00	0	0.208	0.322	8	2.00	0.087188	0.19333	0.29	0.1890	3.83	
7R	1L	4	0	10,710	3.50	210,285	0.0	0.0	0	0.00	0	0.210	0.325	8	0.50	0.176371	0.28667	0.43	0.3229	2.27	
1L	3R	450	0	87,210	2.50	390,825	5.7	5.7	5,700	2.69	15,313	0.406	0.628	8	0.50	0.340638	0.42667	0.64	0.5310	2.66	Luna Drive Connection
3R	2R	133	0	109,820	2.50	447,350	10.4	16.1	16,100	2.47	39,804	0.487	0.754	8	2.69	0.176155	0.28667	0.43	0.3229	5.25	Redondo Drive Connection
2R	1R	109	0	128,350	2.50	493,675	0.0	16.1	16,100	2.47	39,804	0.533	0.825	8	1.50	0.258331	0.35333	0.53	0.4230	4.39	Connection to N. River Road Trunk Sewer

Total Res. Units
919

Total Com/Ind
16.1

Min Slope
0.40

Max Slope
3.60

Min dn/D
0.24

Max dn/D
0.64

Min Vel
1.99

Max Vel
5.25

RES. = Residential
COM. = Commercial
IND. = Industrial
Note: 1 Low Density Res. = 170 gpd
1 Mid Density Res. = 140 gpd
1 Commercial/Industrial Acre = 1,000 gpd

1 K' based on n = 0.013
2 dn/D using K' in Brater King Table 7-14
3 From Brater King Table 7-4 based on dn/D

\\ARTIC\DWG\1043002\REPORT\PWSSA_SWR_EXHIBIT-A_MH.DWG 6/20/2023 10:34:44 AM LAYOUT:11x17_P USER:Karam

LEGEND

PROJECT BOUNDARY

EXISTING PUBLIC GRAVITY SEWER

EXISTING PUBLIC FORCE MAIN (TO BE ABANDONED)

PROPOSED PUBLIC GRAVITY SEWER

ANALYZED EXISTING PUBLIC GRAVITY SEWER

ANALYZED SEWER SUB BASIN AREA

(1) COMPUTER MODEL MANHOLE NUMBER

N

0 500 FEET

EXISTING PUBLIC PACIFICA SCHOOL LIFT STATION (TO BE REMOVED)

PROJECT LOCATION

3M 6M 1R 12R 11R 10R 9R 8R 7R 1L 3R 2R 5N

EX.8" EX.8" EX.8" EX.8" EX.8" EX.15" EX.27" EX.10" EX.27"

OFFSITE GRAVITY SEWER IMPROVEMENT

CONCHO PL
ANN ST
PARKER ST
MICHAEL ST
ARTHUR AVE
CHARLES DR
FLORA DR
LENORE ST
FRANCIS ST
CARILLO CIR
MONICA CIR
ROJA ST
CLAIRE DR
ELAINE AVE
GOLD DR
CARDIFF BAY DR
MACARIO DR
GOLD DR
VANDEGRIFT BLVD
MARBLEHEAD BAY DR
SOL DR
LUNA DR
MALAGA DR
N RIVER RD
MOONSTONE BAY DR
N REDONDO DR
VERDE DR
SIESTA DR
ROJA DR
LUNA DR

EXHIBIT A

SEWER MANHOLE DIAGRAM

PACIFICA

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

Appendix O1
Fire Response Modeling

DUDEK
MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 800.450.1818 F 760.632.0164

FIRE RESPONSE TECHNICAL MEMORANDUM

To:	Johanna Crooker – Meritage Homes
From:	Dudek Fire Protection Planning Team, Noah Stamm, Fire Protection Planner and Michael Huff, Principal
Subject:	Fire and Emergency Response Modeling – Pacifica Project, City of Oceanside, California
Date:	March 15, 2023
cc:	N/A
Attachment(s):	Figure 1 – Project Location Map Figures 2 and 3 - Response Travel Time Exhibits – Oceanside Fire Stations 5 and 6 Figures 4 and 5 – Coverage Service Area Exhibit – Oceanside Fire Stations 5 and 6

This memorandum documents preliminary fire response analysis regarding the Pacifica Project, based on the two closest existing Oceanside Fire Department (OFD) fire stations. This analysis considers response time and call volume as primary factors for determining appropriate timing for on-site fire service. Geographic information system (GIS) based road network analysis was used to conservatively simulate emergency response times from the two closest existing OFD fire stations to the Project's townhomes. This analysis also considers the current per capita call volume for OFD's service area and utilizes this per capita call generation factor to determine the Project's anticipated call volume at build out and whether there would be a significant impact on OFD's response resources.

The results of this analysis inform a recommended proposal for fire service to the Pacifica Project. This analysis provides an analysis of the conducted fire department response modeling and map preparation depicting response distances and times as well as response coverage areas for the two closest existing OFD station locations. This proposal for the two closest OFD fire station's availability is based on a variety of factors including: 1) modeled response travel times, 2) current fire station call volumes, 3) projected Pacifica Project call volumes, and 4) maintenance of existing service to residents.

1 Proposed Pacifica Project

The proposed site consists of the former Pacifica Elementary School located at 4991 Macario Drive (APNs 122-190-19, -22 & 157-070-42) and encompasses 14.55 acres (Figure 1, Project Location Map). The project site has been previously impacted by the former Pacifica Elementary School. The school was built in 1972, and closed in 2002 after the buildings were found to be unsafe to withstand an earthquake. The school was then demolished in 2004. There is a large asphalt pad remaining, which was the former playground area. Disturbed habitat makes up the majority of the site including the slopes around the perimeter, as well as the western portion of the site.

The proposed project consists of development of 164 three-story attached townhomes. Of the 14.55-acre site, 10.16 acres would be developed and would have a density of 11.3 dwelling units per acre. The approximately 4 acres that would not be developed consist of 20 to 30-foot-tall slopes along the southeastern and western portions of the project site. Townhomes would range in size from approximately 1,200 square feet to 1,800 square feet with two, three, or four bedrooms and an attached two-car garage (see building summary below in Table 1). Each townhome would include private open space in the form of a patio and/or deck. Common recreational spaces, consisting of approximately 53,700 square feet, would be designed with amenities such as tot lots, an off-leash dog park, pickle ball courts, bocce ball areas, barbecue areas, and a space for a variety of outdoor games.

Table 1. Proposed Building Summary

Plan Types	Square Footage	Number of Units	Percentage of Total Units	Floor Plan Type	Private Open Space	Garage Spaces [1]
1	1,210 square feet	16	9%	2 bed/2.5 bath	83 square feet	2
2	1,497 square feet	75	46%	3 bed/2.5 bath	107 square feet	2
3	1,791 square feet	73	45%	3 bed/1 flex room/ 2.5 bath	110 square feet	2
Totals		164	100%	-	-	-

[1] An additional 56 spaces (uncovered) would be provided for guest parking.

The proposed residential development would be set back 15 feet from Monica Circle, approximately 74 feet from the northern and southern boundary, and approximately 65 feet from the eastern boundary. The western boundary is bordered by open space and a habitat setback and stormwater basin would buffer the development from the adjacent open space area. This buffer area would be a minimum of 100 feet.

Primary access to the site would utilize the existing driveway at the corner of Monica Circle and Macario Drive. This main entrance would be enhanced with decorative paving, landscaping, and signage. A secondary emergency vehicle access only driveway would be provided via an extension of Malaga Drive on the eastern boundary of the project site.

The approvals required for the project include a General Plan land use amendment and a change in zoning. The project proposes a General Plan land use of MDB-R – Medium Density Residential - B (10-15 du/ac), and a zone of PD – Planned Development. The proposed Planned Development District would provide zoning, use regulations, and development standards for future development of the site. A Planned Development Plan (The Pacifica Planned Development Plan) has been prepared in accordance with the City of Oceanside Zoning Ordinance – Article 17, and is included within the project's EIR as Appendix B. The Planned Development Plan provides direction for the assignment of land uses, development intensities, development regulation, as well as, design guidelines that will provide a framework for the specific development of the site

As mentioned above, primary access to the site would utilize the existing driveway at the corner of Monica Circle and Macario Drive. A secondary emergency vehicle access only driveway would be provided via an extension of Malaga Drive on the eastern boundary of the project site. The proposed residential buildings would be connected by a private loop road within the project site with two internal drive aisles that connect the northern and southern portions of the loop road. Circulation and emergency access drives have been designed in consultation with Oceanside Fire staff to provide 28-foot minimum widths with designated truck turnarounds and key staging areas throughout the project site. And the project would provide a total of 328 garage parking spaces for each residence (two spaces for each

residence). The project would also provide an additional 56 guest parking spaces; guest parking is provided at the community entry point.

2 Existing Stations and Response Times

The Proposed Project site is located within the City of Oceanside's responsibility area and the OFD jurisdictional response area. The following section analyzes the Project in terms of current OFD Fire Service capabilities and resources to provide Fire Protection and Emergency Services to the Oceanside communities. The analysis that follows examines the ability of the two closest existing OFD fire stations, to adequately serve the Proposed Pacifica Project. Response times were evaluated using Project build-out conditions. It was assumed that phased construction would include access roads to the newly constructed structures and that the shortest access route to those structures would be utilized.

The Oceanside Fire Department houses eight firehouses and provide emergency services to every neighborhood throughout the 41 square miles of the City of Oceanside. The OFD serves over 180,000 residents and visitors 24 hours per day, 365 days per year with 115 full-time fire personnel, 34 full- and part-time emergency medical technicians (EMTs), seven full-time lifeguard personnel, 76 part-time lifeguard personnel, and an additional eight staff members providing support. Initial emergency response for the Project would be provided by OFD Fire Station 5, with OFD Fire Station 6 within 2.5 miles of the Project site and would be available to provide secondary response to the Project site, as necessary.

OFD Fire Station 5, located at 4841 N. River Road, Oceanside, California, is the closest responding OFD station to the Project site and would provide initial response. OFD Fire Station 5 is staffed 24/7 by a one Fire Captain, one Engineer, and three Firefighter Paramedics. Station 5's apparatus includes one Type 1 Medic Engine and one Medic Ambulance. Station 5 is approximately 0.5 miles from the secondary access entrance off Roja Drive to the Project site off Macario Drive and approximately 0.7 miles to the most remote portion of the Project site with a calculated travel time of approximately 1 minute and 52 seconds throughout the entire development[1], which would fully conform to OFD's five-minute response time goal to 100% of the Project.

The next closest OFD Fire Station is Station 6, located at 895 N. Santa Fe Ave., Oceanside, California. Oceanside Fire Station 6 is staffed by one Fire Captain, one Engineer, and three Firefighter Paramedics. Station 6's apparatus includes one Type 1 Medic Engine and one Medic Ambulance. Station 6 is approximately 2.5 miles from the secondary access entrance off Roja Drive to the Project and approximately 2.7 miles to the most remote portion of the Project site with a calculated travel time of approximately 5 minutes and 25 seconds throughout the entire development. The OFD indicates "the minimum response standard for 911 medical emergencies in the City of Oceanside is to arrive within five minutes, 90% of the time." Further, the Oceanside General Plan (Public Safety Element) indicates a goal of maintaining an Insurance Services Office (ISO) rating of Class 5 City wide. This equates to having no structures over five road miles from the nearest fire station.

Travel time modeling from the two closest OFD fire stations was conducted utilizing an industry standard Network Analyst model. The results indicate that the entire Project site can be responded to within approximately 1 minute and 52 seconds response travel time from OFD Fire Station 5 and within approximately 5 minutes and 25 seconds

[1] Calculated using the nationally recognized RAND Corporation formula used by the Insurance Services Office (ISO) Public Protection Classification Program's Response Time Standard: (T=0.65 + 1.7D), where T=time and D=distance).

travel by the next closest OFD Fire Station 6. 100% of the Project can be responded to within OFD's five-minute response time goal from Station 5 and approximately 72% of the Project can be responded to within OFD's five-minute response time goal from Station 6. Per Figures 2 and 3, the following response travel times are achieved:

- OFD Fire Station 5: 100% of the townhomes can be responded to within 2 minutes travel and up to 4 minutes 30 seconds total response time.
- OFD Fire Station 6: Approximately 72% of the townhomes can be responded to within 5 minutes travel and up to 7 minutes 30 seconds total response time and 100% of the townhomes can be responded to within 5 minutes and 30 seconds or up to 8 minutes total response time.

It should be noted that the service area analysis (different than the ISO analysis) tends to be more generalized and shows better coverage than the ISO approach; the entire Project site can be responded to under 5 minutes travel time from both OFD Fire Stations 5 and 6 (see Figures 4 and 5).

Response time is evaluated to determine if a community's residents will receive response within a reasonable time frame. Most fire agencies establish response time goals based on national guidelines or locally generated timelines that are suitable for the response area given area-specific characteristics. For example, the National Fire Protection Association (NFPA 1710) provides guidelines for response times that are best suited for urban areas where they prefer a fire station within 1.5 miles and a response time of 7 minutes 90% of the time. The example response time would include approximately 4 minutes travel time and 3 minutes for dispatch and turnout, which occur prior to "wheels rolling". This would not be an appropriate response goal for a developing suburban or rural setting where the population is spread over larger areas and the tax base for funding fire stations is not sufficient to include fire stations at higher densities. These areas are, therefore, commonly provided longer acceptable response times. For example, in San Diego County, urban and denser suburban areas are provided a 5-minute travel time which with dispatch and turnout, would equate to up to 7 to 8 minutes. For less dense suburban areas, 10 minutes travel time is provided. For rural areas, 20 minutes or more travel time is considered adequate. OFD has established internal goals for emergency response to all priority Level One or Emergency type calls within 5 minutes (3 minutes travel), 90% of the time. This is a more stringent response than suggested by the National Fire Protection Association (NFPA) which publishes a national guideline stated above. This analysis indicates that the first arriving engine from Station 5 can respond within OFD's five-minute response goal to 100% of the Project site and 4 minutes 30 seconds total response time, well within OFD's standards.

3 Call Volume

Additional analysis was conducted to determine when the Project would generate up to one call per day. This threshold is a commonly used metric for determining when a fire station should be constructed to serve a new community that will, at build out, generate more than one call per day and exceeds fire authority response time standards.

Dudek evaluated the latest available call volume information for the OFD. To represent the socioeconomic conditions in the City of Oceanside that may impact call volumes, the number of calls for OFD Fire Stations 5 and 6 were combined and compared against the City's population. Emergency call volumes related to typical projects, such as new residential developments, can be reliably estimated based on the historical per-capita call volume from a particular fire jurisdiction. The OFD documented 24,173 total incidents for 2022 generated by a City-wide,

service area total population of approximately 180,000 persons throughout the 41 square miles of the City of Oceanside (Oceanside Fire Department – About Us, 2023)[2]. Based on the City's total population of approximately 180,000 people and a total of 24,173 incidents, the City's per capita annual call volume is approximately 134 calls per 1,000 persons. The resulting per capita call volume is 0.134. Using the OFD's estimated call volume, the Project's estimated population is calculated to generate up to 63 calls per year (approximately 1.2 calls per week). The population includes approximately 469 residents for the proposed up to 164 three-story townhomes (including 2.86 persons per unit x 164 DU=469 persons) (U.S. Census Bureau, 2021). The Project's estimated 469 population would generate roughly 63 calls per year, most of which are expected to be medical-related calls; consistent with typical emergency call statistics (see Table 3). The estimated incident call volume at buildout from the Project is based on a conservative estimate of the maximum potential number of persons on site at any given time (considered a "worst case" scenario).

The OFD call volume analysis is provided in Tables 2 and 3.

Table 2. Calculated OFD Calls/Capita

	Calls 2022	Population 2022	Calls/1,000	Calls/capita
Oceanside Fire Department (All Stations)	24,173	180,000	Approx. 134	0.066[1]

[1] *Should the current call volume and/or population totals require update based on OFD review, the calls/capita may require updating and could adjust the Project's call generation.*

Table 3. Pacifica Project Calculated Call Volumes

	No. Units	Estimated Per Unit Population	Total Est. Residential Population	Anticipated Annual Calls at Build Out	Calls/Day
Anticipated Calls	164	2.86	469	Approximately 63	0.17

The results of Dudek's OFD call volume analysis indicate that the current Oceanside population generates approximately 134 calls per 1,000 persons per year (Table 2). When applied to the Pacifica Project, at build out, the Project would potentially generate up to 63 additional calls per year (roughly 5 calls per month or 0.17 call per day (Table 3), with medical emergencies representing the most common call type. Service level requirements are not expected to be significantly impacted with the increase of approximately 5 call per month/0.17 calls per day for the local fire response system. For example, OFD's Station 5's Engine currently responds to roughly 6 to 7 call per day in its primary service area. For perspective, 5 calls per day is considered average for a suburban fire station and 10 calls per day would be considered a busy fire station. Adding 0.17 calls per day to an existing fire station that is running approximately 6 calls per day may be considered to impact the ability of that fire station to continue meeting its internal response goals. More extensive study would be required whether the 0.17 calls would be a significant

[2] https://fire.ci.oceanside.ca.us/department-overview/about-us

impact on any of the responding fire stations if they were relied on to service the Project at build out to make that determination and is beyond the scope of this analysis.

The primary focus of this call volume analysis is determining the number of Project residences (i.e., population), based on the City's per capita call volume generation factor, that would generate one call per day. Per Table 3 and based on the City's estimated 2.86 persons per residence, the Project is calculated to generate less than one call per day when all 164 townhome units are occupied, and the community is at full capacity.

4 Recommendations/Conclusions

The Pacifica Project would introduce a new population to the OFD Fire Station 5's service area over the course of its build out; the Project is located within 1-mile of OFD career Fire Station 5 and within approximately 2.5 miles of OFD Fire Station 6. There are two primary factors when determining whether a project's population would impose an impact on the fire service capabilities of the fire authority having jurisdiction or have an impact on existing or future residents, 1) call volume and 2) response times. The analysis conducted herein concludes that the closest existing fire station (OFD Station 5) can provide adequate response times of less than 2 minutes, with a total response time to all 164 townhomes within the Project site under 5 minutes. Given the Project is within the City's General Plan goal of providing fire stations within five miles of all structures and all units can be responded to within 5 minutes total response time (including dispatch and turnout times), we believe it is appropriate to propose coverage from Station 5.

The Pacifica Project and its proposed 469 residents represents a slight increase in potential service demand of approximately 63 calls per year. Without additional resources, this total would add to an existing moderately busy service obligation for OFD Stations 5 and 6. The additional call volume from the Project is considered minimal and would not be anticipated to result in an impact on the OFD's response resources, particularly due to the funding through taxes and fees that would be generated by the Project for the OFD to enhance and improve its capabilities.

This proposal is prepared for consideration by the OFD. Where calculations require revisions due to more recent call volumes or other factors not readily available at the time of this analysis, Dudek will update this report based on comments and information provided.

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Figure 1

Project Location Map

Figure 2

Fire Response Modeling Results – OFD Station 5

Figure 3

Fire Response Modeling Results – OFD Station 6

Figure 4

Coverage Service Area Modeling Results – OFD Station 5

Figure 5

Coverage Service Area Modeling Results – OFD Station 6

Appendix O2
Evacuation Memorandum

CITY OF OCEANSIDE
FIRE DEPARTMENT

DAVID PARSONS
FIRE CHIEF

June 20, 2023

Johanna Crooker, Director of Entitlements
Meritage Homes
5 Peters Canyon Rd., Suite 310, Irvine, CA 92606

Delivered via Email

Reference: GPA22-00001 Pacifica Housing

Ms. Crooker,

The following is provided in response to conversations over the past couple of months solely relating to evacuation concerns involving your proposed project.

- Does the fire department have any concerns regarding the evacuation of the project in the event that the neighborhood needs to be evacuated due to a nearby fire?

The Oceanside Fire Department (OFD) has no specific concerns relating your project in the event of an evacuation due to a nearby wildfire. In the event of a wildfire or other emergency resulting in the need for evacuation of the area encompassing your project the City will notify residents and visitors via a wide variety of sources, ranging from apps for cell tower alerting (e.g. all cell phones in a set distance from the tower) to reverse 911 systems for landline phones. Our initial assessment does not see any issues raised by your project that are different than any affecting the surrounding area. Additionally, there are mitigating factors that reduce the risk of wildfire impacts in the project area such as wide firebreaks on Camp Pendleton's perimeter to vegetation management in the riparian area along Pilgrim Creek. The last major wildfires to directly impact the surrounding area included the Julliett Fire in October 2008 and the Douglas Fire in June 2017. In the case of the Julliett Fire (which occurred in a Santa Ana wind event), the fire was successfully stopped on Camp Pendleton by the firebreaks before it spread into the adjacent neighborhoods. In the case of the Douglas Fire, the wind blew the fire along the edge of the Pilgrim Creek riparian area, but it did not travel very far east and instead traveled towards Camp Pendleton.

- Are there any emergency response or evacuation plans/procedures/policies in place for such an event?

The Lilac Fire of 2017 is often cited as an example of a problematic evacuation for the area encompassing the proposed project. The OFD recognizes there were issues involved with

the Lilac evacuation, including the call to evacuate a far larger area than was needed. Additionally, conflicting information was provided by Cal Fire and the City of Oceanside as to the areas to evacuate. However, since that incident steps have been taken by many parties, including the City of Oceanside, to reduce or eliminate these issues in subsequent incidents. For example, the previous evacuation process involved the use of major thoroughfares and large geographic areas to designate evacuation zones. Subsequent to the Lilac Fire, all law and fire agencies in the County of San Diego switched evacuations to a new and more focused process. This process involves detailed maps carried by all emergency response agencies so that evacuation zones can be more precisely identified and communicated. This would have significantly reduced the number of residents evacuated, ensuring a more orderly and timely movement of vehicles out of the area. Notifications have also been improved and a new evacuation mapping and notification system (Zonehaven) is currently being rolled out Countywide to aid dispatch centers in managing the process.

Altogether, the City of Oceanside is prepared to evacuate the appropriate areas of the City, including your project, in the event any type of emergency necessitates such action. However, we do not feel that your specific project will impact those decisions or the evacuation process based on our current evaluation of the scope of work.

As identified in the initial paragraph, this letter is providing information solely relating to evacuation issues concerning your specific project. It does not address any zoning, building code, fire code or service delivery issues relating to this or any other project within the City. Should you have any questions or need additional information, please contact Randy Hill, Assistant Fire Marshal for the Oceanside Fire Department at RHill@oceansideca.org or me at PLawrence@Oceansideca.org.

Respectfully,

Peter H. Lawrence
Deputy Fire Chief