CITY OF FRESNO **MITIGATED NEGATIVE DECLARATION**		Notice of Intent was filed with: FRESNO COUNTY CLERK 2220 Tulare Street Fresno, California 93721 on **April 14, 2021**
The full Initial Study and the Fresno General Plan Master Environmental Impact Report are on file in the Development and Resource Management Department, Fresno City Hall, 3rd Floor 2600 Fresno Street Fresno, California 93721 (559) 621-8277	ENVIRONMENTAL ASSESSMENT NUMBER: **P21-00726**	
APPLICANT: City of Fresno Planning and Development Department 2600 Fresno Street Fresno, CA 93721	PROJECT LOCATION: 2155 S. Peach Avenue, Fresno CA 93727; located on the east side of South Peach Avenue. ±49.04 acres Site Latitude: 36°43'18.76"N Site Longitude: -119°42'58.77"W Mount Diablo Base & Meridian, Township 14S, Range 20E Section 26 – California Assessor's Parcel Numbers: 481-020-29T, 481-020-30T, and 473-030-07T	

PROJECT DESCRIPTION:

Development Permit Application No. P21-00726 was filed by 3362 East Balch Avenue, Fresno, California 93702, United States. The applicant proposes to develop a regional park and soccer complex on a site that encompasses two park parcels (Northern Parcel and Southern Parcel) at 2155 South Peach Avenue. The two park parcels are rectangular in shape and are separated by a 60-foot wide Southern Pacific Railroad Parcel, which includes a railroad track and the Braley canal. No General Plan amendment or rezone is required, as the public park uses are allowed under the existing PR and RS-1 zoning, as well as under the CP General Plan designation.

Park Concept:

The Northern Parcel encompasses 18.5 acres and anticipates development of the following features:

- Open space play areas, picnic areas and equipment playground areas;
- Ornamental landcape buffer, woodland area, and water conservation features;
- A multipurpose trail (accommodating bicyclists, joggers, pedestrians, and roller bladers);
- A Veterans Memorial garden;
- Dog Park;
- Two Basketball courts;
- A softball diamond;

- Two outdoor futsal courts;
- Office space, maintenance, and storage buildings;
- Concession stand, restrooms, and a parking area;
- Community center complex; and
- A Multi-purpose hall.

The Southern Parcel encompasses approximately 30 acres and anticipates development the following features:

- Two synthetic grass soccer fields;
- Six natural grass soccer fields; and
- Indoor soccer/futsal facility-two courts.

Entitlements
Environmental Assessment No. P21-00726 would require approval of the Development Permit

The City of Fresno has conducted an initial study and proposes to adopt a Mitigated Negative Declaration for the above-described project. The environmental analysis contained in the Initial Study and this Mitigated Negative Declaration is tiered from the Master Environmental Impact Report (SCH # 2012111015) prepared for the Fresno General Plan ("MEIR"). A copy of the MEIR may be reviewed in the City of Fresno Development and Resource Management Department as noted above. The proposed project has been determined to be a subsequent project that is not fully within the scope of the MEIR prepared for the Fresno General Plan. Pursuant to Public Resources Code § 21157.1 and California Environmental Quality Act (CEQA) Guidelines § 15177, this project has been evaluated with respect to each item on the attached environmental checklist to determine whether this project may cause any additional significant effect on the environment which was not previously examined in the MEIR. After conducting a review of the adequacy of the MEIR pursuant to Public Resources Code, Section 21157.6(b)(1), the Development and Resource Management Department, as lead agency, finds that no substantial changes have occurred with respect to the circumstances under which the MEIR was certified and that no new information, which was not known and could not have been known at the time that the MEIR was certified as complete, has become available.

This completed environmental impact checklist form, its associated narrative, technical studies and proposed mitigation measures reflect applicable comments of responsible and trustee agencies and research and analyses conducted to examine the interrelationship between the proposed project and the physical environment. The information contained in the project application and its related environmental assessment application, responses to requests for comment, checklist, initial study narrative, and any attachments thereto, combine to form a record indicating that an initial study has been completed in compliance with the State CEQA Guidelines and the CEQA.

All new development activity and many non-physical projects contribute directly or indirectly toward cumulative impacts on the physical environment. It has been determined that the incremental effect contributed by this project toward cumulative impacts is not considered substantial or significant in itself, and/or that cumulative impacts accruing from this project may be mitigated to less than significant with application of feasible mitigation measures.

Based upon the evaluation guided by the environmental checklist form, it was determined that there are foreseeable impacts from the project that are additional to those identified in the MEIR, and/or impacts which require mitigation measures not included in the MEIR Mitigation Measure Checklist.

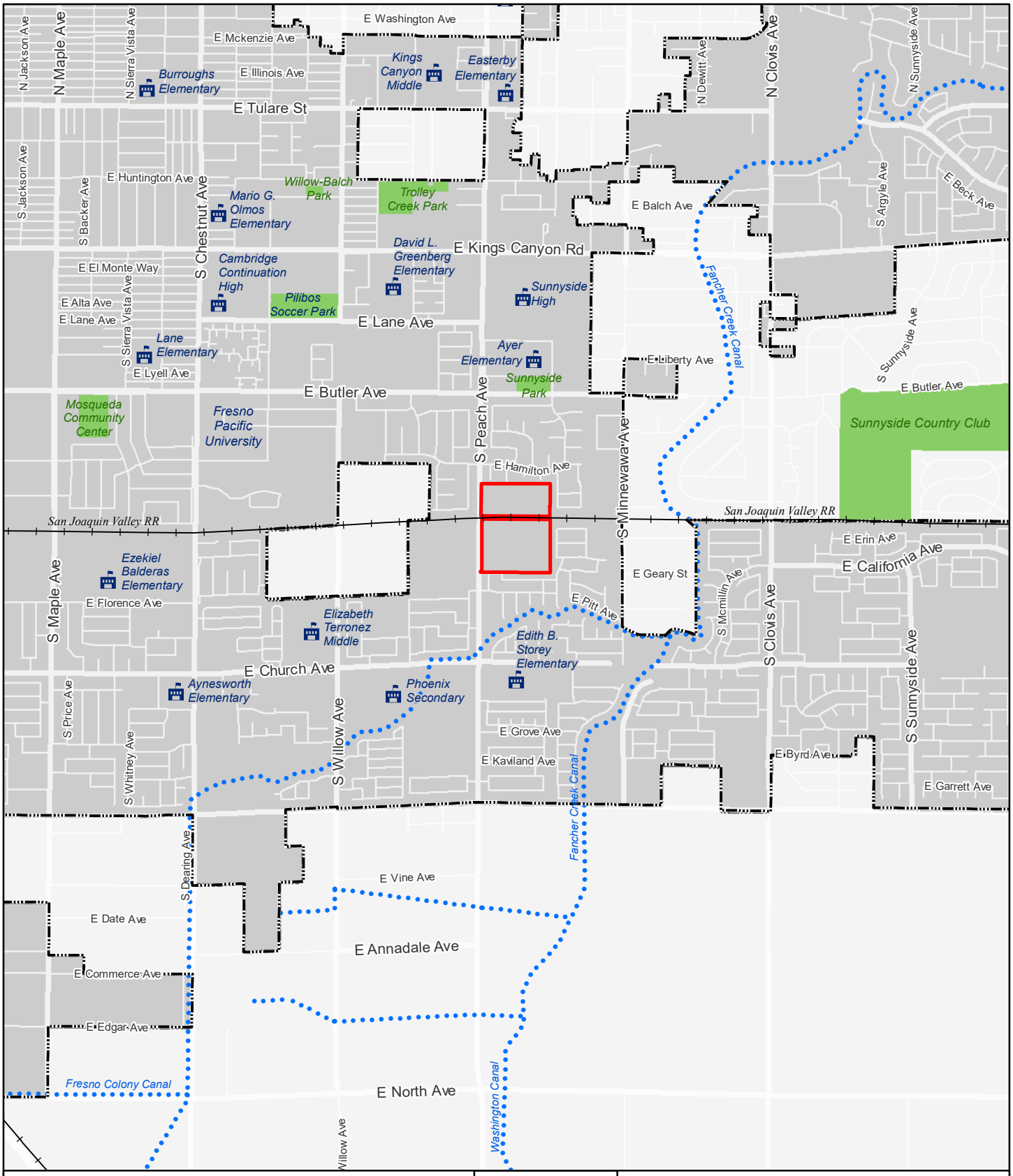
The completed environmental checklist form indicates whether an impact is potentially significant, less than significant with mitigation, or less than significant.

For some categories of potential impacts, the checklist may indicate that a specific adverse environmental effect has been identified which is of sufficient magnitude to be of concern. Such an effect may be inherent in the nature and magnitude of the project, or may be related to the design and characteristics of the individual project. Effects so rated are not sufficient in themselves to require the preparation of an Environmental Impact Report, and have been mitigated to the extent feasible. With the project specific mitigation imposed, there is no substantial evidence in the record that this project may have additional significant, direct, indirect or cumulative effects on the environment that are significant and that were not identified and analyzed in the MEIR. Both the MEIR Mitigation Measure Checklist and the Project Specific Mitigation Measure Checklist will be imposed on this project.

The initial study has concluded that the proposed project will not result in any adverse effects which fall within the "Mandatory Findings of Significance" contained in Section 15065 of the State CEQA Guidelines.

The finding is, therefore, made that the proposed project will not have a significant adverse effect on the environment.

PREPARED BY: Chris Lang, Planner III	SUBMITTED BY: Mike Sanchez, Assistant Director CITY OF FRESNO PLANNING AND DEVELOPMENT DEPARTMENT
DATE: April 12, 2021	
Attachments:	- Vicinity Map - Notice of Intent - Initial Study Impact Checklist and Initial Study (Appendix G) - City of Fresno General Plan MEIR Mitigation Measure Monitoring Checklist dated April 6, 2021 - Project Specific Mitigation Monitoring Checklist dated April 6, 2021 -Appendix A: CalEEMod and Energy Calculations -Appendix B: Cultural Resource Assessment -Appendix C: Phase I Environmental Site Assessment -Appendix D: Water Supply Assessment -Appendix E: Noise Impact Study -Appendix F: Transportation Impact Study -Appendix G: Site Design Scheme



LEGEND

- Project Boundary
- City of Fresno
- Unincorporated Fresno County
- Canal
- School
- Park

0 1,000 2,000 Feet

Sources: Fresno County GIS; City of Fresno GIS; USGS NHD; Google Maps. Map date: December 7, 2020.

SOUTHEAST REGIONAL FRESNO PARK AND SOCCER SPORTS COMPLEX

Vicinity Map

De Novo Planning Group
A Land Use Planning, Design, and Environmental Firm

E202110000074

CITY OF FRESNO

NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION

EA No. P21-00726 for

Environmental Assessment No. P21-00726

PROJECT SPONSOR:

City of Fresno
Planning and Development Department
2600 Fresno Street
Fresno, CA 93721

PROJECT LOCATION:

2155 S. Peach Avenue, Fresno CA 93727; located on the east side of South Peach Avenue. ±49.04 acres

Site Latitude: 36°43'18.76"N
Site Longitude: -119°42'58.77"W

Assessor's Parcel Numbers: 481-020-29T, 481-020-30T, and 473-030-07T

Filed with:

FILED
APR 14 2021 TIME 3:36PM
By FRESNO COUNTY CLERK DEPUTY

FRESNO COUNTY CLERK
2220 Tulare Street, Fresno, CA 93721

PROJECT DESCRIPTION:

Development Permit Application No. P21-00726 was filed by 3362 East Balch Avenue, Fresno, California 93702, United States. The applicant proposes to develop a regional park and soccer complex on a site that encompasses two park parcels (Northern Parcel and Southern Parcel) at 2155 South Peach Avenue. The two park parcels are rectangular in shape and are separated by a 60-foot wide Southern Pacific Railroad Parcel, which includes a railroad track and the Braley canal. No General Plan amendment or rezone is required, as the public park uses are allowed under the existing PR and RS-1 zoning, as well as under the CP General Plan designation.

Park Concept:

The Northern Parcel encompasses 18.5 acres and anticipates development of the following features: Open space play areas, picnic areas and equipment playground areas; Ornamental landcape buffer, woodland area, and water conservation features; A multipurpose trail (accommodating bicyclists, joggers, pedestrians, and roller bladers); A Veterans Memorial garden; Dog Park; Two Basketball courts; A softball diamond; Two outdoor futsal courts; Office space, maintenance, and storage buildings; Concession stand, restrooms, and a parking area; Community center complex; and A Multi-purpose hall.

The Southern Parcel encompasses approximately 30 acres and anticipates development the following features: Two synthetic grass soccer fields; Six natural grass soccer fields; and Indoor soccer/futsal facility-two courts.

E202110000074

Entitlements

Environmental Assessment No. P21-00726 would require approval of the Development Permit

The City of Fresno has conducted an initial study of the above-described project and it has been determined to be a subsequent project that is not fully within the scope of the Master Environmental Impact Report SCH No. 2012111015 (MEIR) prepared for the Fresno General Plan. Therefore, the Development and Resource Management Department proposes to adopt a Mitigated Negative Declaration for this project.

With the project specific mitigation imposed, there is no substantial evidence in the record that this project may have additional significant, direct, indirect or cumulative effects on the environment that are significant and that were not identified and analyzed in the MEIR. After conducting a review of the adequacy of the MEIR pursuant to Public Resources Code, Section 21157.6(b)(1), the Development and Resource Management Department, as lead agency, finds that no substantial changes have occurred with respect to the circumstances under which the MEIR was certified and that no new information, which was not known and could not have been known at the time that the MEIR was certified as complete has become available. The project is not located on a site which is included on any of the lists enumerated under Section 65962.5 of the Government Code including, but not limited to, lists of hazardous waste facilities, land designated as hazardous waste property, hazardous waste disposal sites and others, and the information in the Hazardous Waste and Substances Statement required under subdivision (f) of that Section.

Additional information on the proposed project, including the MEIR proposed environmental finding of a mitigated negative declaration and the initial study may be obtained from the Development and Resource Management Department, Fresno City Hall, 2600 Fresno Street, 3rd Floor Fresno, Room 3043, California 93721-3604. Please contact Summer Cecil at (559) 621-8166 for more information.

ANY INTERESTED PERSON may comment on the proposed environmental finding. Comments must be in writing and must state (1) the commentor's name and address; (2) the commentor's interest in, or relationship to, the project; (3) the environmental determination being commented upon; and (4) the specific reason(s) why the proposed environmental determination should or should not be made. Any comments may be submitted at any time between the publication date of this notice and close of business on May 14, 2021. Please direct comments to Summer Cecil, Project Manager, City of Fresno Development and Resource Management Department, City Hall, 2600 Fresno Street, Room 3043, Fresno, California, 93721-3604; or by email to Summer.Cecil@fresno.gov; or comments can be sent by facsimile to (559) 498-1026.

INITIAL STUDY PREPARED BY: Chris Lang, Planner III	SUBMITTED BY: Mike Sanchez, Assistant Director CITY OF FRESNO PLANNING AND DEVELOPMENT DEPARTMENT
DATE: April 9, 2021	

APPENDIX G/INITIAL STUDY FOR A MITIGATED NEGATIVE DECLARATION

Environmental Checklist Form for:
Development Permit Application No. P21-00726

1.	**Project title:** Development Permit Application No. P21-00726
2.	**Lead agency name and address:** City of Fresno Planning and Development Department 2600 Fresno Street Fresno, CA 93721
3.	**Contact person and phone number:** Summer Cecil, Project Manager City of Fresno Planning and Development Department (559) 621-8166
4.	**Project location:** 2155 S. Peach Avenue, Fresno CA 93727; located on the east side of South Peach Avenue. ±49.04 acres Site Latitude: 36°43'18.76"N Site Longitude: -119°42'58.77"W Assessor's Parcel Numbers: 481-020-29T, 481-020-30T, and 473-030-07T
5.	**Project sponsor's name and address:** Southeast Fresno Community Economic Development Association, Inc. (SEFCEDA) 3362 East Balch Avenue, Fresno, California 93702, United States
6.	**General & Community plan land use designation:** Community Park (CP)
7.	**Zoning:** North Site: Parks and Recreation (PR); South Site: Residential Single-Family, Extremely Low-Density RS-1/UGM

8.	**Description of project:** Development Permit Application No. P21-00726 was filed by 3362 East Balch Avenue, Fresno, California 93702, United States. The applicant proposes to develop a regional park and soccer complex on a site that encompasses two park parcels (Northern Parcel and Southern Parcel) at 2155 South Peach Avenue. The two park parcels are rectangular in shape and are separated by a 60-foot wide Southern Pacific Railroad Parcel, which includes a railroad track and the Braley canal. No General Plan amendment or rezone is required, as the public park uses are allowed under the existing PR and RS-1 zoning, as well as under the CP General Plan designation. The operational components of this facility can be grouped in the following four categories: 1. Open Free Recreation and Park Access. Free activities available during this component are typical of a regional park facility and they will include visiting open space play areas, picnic areas, equipment playground areas, a multipurpose trail and a woodland area, a dogs' park, a veteran's memorial garden, basketball, volleyball courts and a softball diamond. 2. Organized Futsal Programs. Two outdoor Futsal Courts that will accommodate organized tournaments, leagues, practice games and special events that will be available for a fee to the users and attendees. 3. Organized Soccer Programs. Initially, two outdoor Soccer regulation-size fields that will accommodate organized tournaments, leagues, practice games and special events will be available for a fee to the users and attendees. Additionally, over time, six additional soccer regulation-size fields with natural grass are anticipated to be added, which would support additional organized tournaments, leagues, practice games and special events. 4. Special events, promotions and fundraising activities. The scheduling of special events, promotions and fundraising activities, including displays at this site will comply with policies and procedures of the City of Fresno. Park Concept: The Northern Parcel encompasses 18.5 acres and anticipates development of the following features: • Open space play areas, picnic areas and equipment playground areas; • Ornamental landscape buffer, woodland area, and water conservation features; • A multipurpose trail (accommodating bicyclists, joggers, pedestrians, and roller bladers); • A Veterans Memorial garden;

- Dog Park;
- Two Basketball courts;
- A softball diamond;
- Two outdoor futsal courts;
- Office space, maintenance, and storage buildings;
- Concession stand, restrooms, and a parking area;
- Community center complex; and
- A Multi-purpose hall.

The Southern Parcel encompasses approximately 30 acres and anticipates development the following features:

- Two synthetic grass soccer fields;
- Six natural grass soccer fields; and
- Indoor soccer/futsal facility-two courts.

Park Operation:

The hours of operations of the regional park components will be from sunrise to sunset. This facility will be open on a first-come first-serve basis, and reservations of space will be possible. It will be open all days of the calendar year. The Community Garden is only available to individuals assigned space to grow vegetables. Total area available at the Northern Parcel where these facilities are located include a total of 18.5 acres. A 20-foot buffer of landscaping and shrubs would help mitigate any noise generated by visitors. Any required lighting will be directed away from neighboring homes.

Impact of Soccer and Futsal leagues, tournaments, and special events. The hours of operation of the area occupied by two Futsal Courts and two Soccer fields will be from 3:00 pm to 9:00 pm weekdays; and from 7:00 am to 9:00 pm on weekends.

It is anticipated that during the 365 days of the year, 65% of the time (240 days), these four facilities will be used to hold leagues for children and adults. The scheduling of tournaments for both sports at four facilities for children and adults will take about 22% of the time (82 days). The remaining of the time, 12% of the time, (about 43 days) will be used to allow the facilities to rest and to rent them to teams for practice activities during off-season time periods.

Leagues:

It is estimated that on an annual basis the two soccer fields will be able to schedule four league seasons, that each league could include up to 72 teams per league, for a maximum total of 1,296 players (18 players per team).

It is estimated that on an annual basis the two futsal courts will be able to schedule four league seasons, that each league could include up to 72 teams per league, for a maximum total of 720 players (10 players per team).

The number of event participants and public members is limited by the number of games that can be scheduled in the two type of facilities available. It should also be noted that leagues and tournaments are held with teams of similar age level divisions.

Tournaments:

It is estimated that on an annual basis the two soccer fields will be able to schedule 44 tournaments, that each tournament could include up to 88 teams per tournament, for a maximum total of 880 players per tournament (10 players per team).

It is estimated that on an annual basis the two futsal courts will be able to schedule 44 tournaments, that each tournament could include up to 88 teams per tournaments, for a maximum total of 1,296 players (18 players per team).

Existing Site Uses:

The site is currently defunct and not in use. Much of the site is surrounded by a wire fence and landscaping. The existing property contains the following:

<u>Northern parcel</u>

- 3 (three) Buildings, which are boarded up and not currently utilized;
- Defunct Greenhouse and pump house;
- Loading docks, shelters, and vacant storage sheds;
- Community Garden surrounded by a chain-link fence;
- Entrance/exist roads; and
- Fields

<u>Southern parcel</u>

- Fields (includes an expired tree fruit orchard and agricultural field);
- Roads (one dirt road entrance); and
- Vegetation.

9. **Surrounding land uses and setting:**

	Planned Land Use	Existing Zoning	Existing Land Use
North	Residential - Medium Low Density	RS-4 Residential Single-Family, Medium Density	Residential Community
East	Residential - Medium Low Density	RS-4 Residential Single-Family, Medium Density	Residential Community
South	Residential - Medium Low Density; Residential – Medium Density	RS-4 & RS-5 Residential Single-Family, Medium Low Density; Residential Single-Family, Medium Density	Residential Community
West	Residential - Medium Low Density; Residential – Medium Density	RS-4 & RS-5 Residential Single-Family, Medium Low Density; Residential Single-Family, Medium Density	Residential Community/Vacant Land

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):**

Planning and Development Department, Building & Safety Services Division; Department of Public Works; Department of Public Utilities; City of Fresno Fire Department; Fresno Metropolitan Flood Control District; and San Joaquin Valley Air Pollution Control District.

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code (PRC) Section 21080.3.1? If so, has consultation begun?**

The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the California Environmental Quality Act (CEQA) Guidelines. Pursuant to PRC Section 21080.3.1, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC Section 21074(a) (1-2)). According to the most recent census data, California is home to 109 currently recognized Indian tribes. Tribes in California currently have nearly 100 separate reservations or Rancherias. Fresno County has a number of Rancherias such as Table Mountain

	Rancheria, Millerton Rancheria, Big Sandy Rancheria, Cold Springs Rancheria, and Squaw Valley Rancheria. These Rancherias are not located within the city limits. Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See PRC Section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC Section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC Section 21082.3(c) contains provisions specific to confidentiality. Currently, the Table Mountain Rancheria Tribe and the Dumna Wo Wah Tribe have requested to be notified pursuant to Assembly Bill 52 (AB 52). A certified letter was mailed to the above-mentioned tribes on ***March 1, 2021***. The 30-day comment period ended on ***March 31, 2021***. Both tribes did not request consultation.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☐	Aesthetics	☐	Agriculture and Forestry Resources
☐	Air Quality	☐	Biological Resources
☐	Cultural Resources	☐	Energy
☐	Geology/Soils	☐	Greenhouse Gas Emissions
☐	Hazards and Hazardous Materials	☐	Hydrology/Water Quality
☐	Land Use/Planning	☐	Mineral Resources
☐	Noise	☐	Population/Housing
☐	Public Services	☐	Recreation
☐	Transportation	☐	Tribal Cultural Resources
☐	Utilities/Service Systems	☐	Wildfire
☐	Mandatory Findings of Significance		

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

___	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
_X_	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
___	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT (EIR) is required.
___	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.
___	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Chris Laug 4/9/21

Planner Name, Title Date

EVALUATION OF ADDITIONAL ENVIRONMENTAL IMPACTS NOT ASSESSED IN THE MASTER ENVIRONMENTAL IMPACT REPORT (MEIR):

1. For purposes of this Initial Study, the following answers have the corresponding meanings:

   a. "No Impact" means the subsequent project will not cause any additional significant effect related to the threshold under consideration which was not previously examined in the MEIR.

   b. "Less Than Significant Impact" means there is an impact related to the threshold under consideration that was not previously examined in the MEIR, but that impact is less than significant;

   c. "Less Than Significant with Mitigation Incorporation" means there is a potentially significant impact related to the threshold under consideration that was not

previously examined in the MEIR, however, with the mitigation incorporated into the project, the impact is less than significant.

d. “Potentially Significant Impact” means there is an additional potentially significant effect related to the threshold under consideration that was not previously examined in the MEIR.

2. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

3. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

4. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

5. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from, "Earlier Analyses," as described in (6) below, may be cross-referenced).

6. Earlier analyses may be used where, pursuant to the tiering, program EIR, MEIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

a. Earlier Analysis Used. Identify and state where they are available for review.

b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in the MEIR or another earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

7. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

8. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

9. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

10. The explanation of each issue should identify:

    a. The significance criteria or threshold, if any, used to evaluate each question; and

    b. The mitigation measure identified, if any, to reduce the impact to less than significance.

ENVIRONMENTAL ISSUES	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
I. AESTHETICS – Except as provided in PRC Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?			X	
b) Substantially damage scenic resources, including, but not limited to, trees, rock out-croppings, and historic buildings within a state scenic highway?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) In non-urbanized areas, substantially degrade the existing visual character or quality public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?		X		

DISCUSSION

a) Have a substantial adverse effect on a scenic vista?

The site is located within an area undergoing continued growth in development. Areas to the east, north, west, and south have been developed and continue to be developed with residential uses. The project site is currently developed with scattered agricultural uses. Property to the west includes vacant land previously used for agricultural purposes. Property to the north, south, east, and west include residential developments. The existing topography of the subject property is nearly flat, with elevations ranging from approximately 305 to 310 feet above mean sea level.

A scenic vista is a viewpoint that provides a distant view of highly valued natural or man-made landscape features for the benefit of the general public. Typical scenic vistas are locations where views of rivers, hillsides, and open space areas can be obtained as well as locations where valued urban landscape features can be viewed in the distance.

The Fresno General Plan MEIR provides and recognizes that the City has not identified or designated scenic vistas within its General Plan. Although no scenic vista has been designated, it is acknowledged that scenic vistas within the Planning Area could provide distant views of natural landscape features such as the San Joaquin

River along the northern boundary of the Planning Area and the foothills of the Sierra Nevada Mountain Range. The River bluffs provide distant views of the San Joaquin River as well as areas north of the River. However, the majority of these views are from private property. There are limited views of the San Joaquin River from Weber Avenue, Milburn Avenue, McCampbell Drive, Valentine Avenue, Palm Avenue, State Route 41, Friant Road, and Woodward Park. There are various locations throughout the eastern portion of the Planning Area that provide views of the Sierra Nevada foothills that are located northeast and east of the Planning Area. These distant views of the Sierra Nevada foothills are impeded many days during the year by the poor air quality in the Fresno region. Distant views of man-made landscape features include the Downtown Fresno buildings that provide a unique skyline.

The proposed project will not have a substantial adverse effect on a scenic vista; therefore, a **less than significant** impact would result.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Scenic resources include landscapes and features that are visually or aesthetically pleasing. They contribute positively to a distinct community or region. These resources produce a visual benefit upon communities. The scenic resources within the Planning Area include landscaped open spaces such as parks and golf courses. Additional scenic resources within the Planning Area include areas along the San Joaquin River due to the topographic variation in the relatively flat San Joaquin Valley. The River bluffs provide a unique geological feature in the San Joaquin Valley. Historic structures in Downtown Fresno buildings also represent scenic resources because they provide a unique skyline.

Although superseded by the Fresno General Plan (§15-104-B-4.b of the FMC) the Bullard Community Plan previously depicted six vista points along the bluffs overlooking the San Joaquin River bottom and environs. Two of the vista points within Riverview Estates were recognized as having either been developed or committed to development through tentative map approval, prior to the establishment of the Bullard Community Plan standards. As a result, the two committed sites were considered minimal facilities with potential access and other problems. To avoid such future problems, standards were prepared within the Bullard Community Plan to guide development of the four remaining vista points.

The purpose of the vista points was to provide limited bluff access to non-area residents and to offer panoramic views of the river bluffs and river bottom. Such views were considered best be enjoyed as part of a passive recreational experience where one can stop, relax and absorb the natural beauty of the river environment. As such, the vista points were recommended to be designed to accommodate local residents who walk, non-area residents who bike, and the driving public.

None of the six vista point locations shown on the Bullard Community Plan Map are located in the nearby vicinity of the subject property. Each vista point is located over 8 miles to the north of the project site. As such, impacts related to these vista points would not occur.

Given the site's distance from the San Joaquin River (i.e., approximately 10 miles northwest of the site), the proposed project will not interfere with public views of the San Joaquin River environs. Furthermore, as there are no designated public or scenic vistas on or adjacent to the subject property, there is no potential for adverse effect on a scenic vista.

Furthermore, the Fresno General Plan MEIR recognizes and acknowledges that poor air quality reduces existing views within the City of Fresno sphere of influence as a whole, and therefore finds that a less than significant impact will result to views of highly valued features such as the Sierra Nevada foothills from future development on and in the vicinity of the subject property.

Finally, the project site is not within the vicinity of a State designated scenic highway; therefore, a **less than significant** impact would result.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

The project will not damage nor will it degrade the visual character or quality of the subject site and its surroundings, given that the project site is in an area within close proximity to existing residential development; and, in an area generally planned for and developed with residential and residential-friendly uses. Therefore, a **less than significant** impact would result.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

The development of the regional park and soccer complex on a site that encompasses two park parcels (Northern Parcel and Southern Parcel) at 2155 South Peach Avenue, would create new sources of light and glare within the area. However, the hours of operations of the regional park components will be from sunrise to sunset. Moreover, given that the project site is within an area which has been previously developed or is currently being developed, which already affect day and night time views in the project area to a degree equal or greater than the proposed project, no significant impact will occur. The project would be subject to the applicable mitigation measures pertaining to light and glare included in in MEIR SCH No. 2012111015 (such as Mitigation Measure AES-1 and Mitigation Measure AES-2, as provided in the attached MEIR

Mitigation Checklist).

Furthermore, through the entitlement process, staff will ensure that lights are located in areas that will minimize light sources to the neighboring properties in accordance with the mitigation measures of the MEIR.

In conclusion, with MEIR mitigation measures incorporated, the project will not result in any aesthetic resource impacts beyond those analyzed in MEIR SCH No. 2012111015. Therefore, the project will have a **less than significant** impact related to light and glare.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the aesthetic related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				X
d) Result in the loss of forest land or conversion of forest land to non-forest use?				X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				X

DISCUSSION

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Based upon the 2016 Rural Land Mapping Edition: Fresno County Important Farmland Map of the State of California Department of Conservation, the project site is designated “Farmland of Local Importance”. The area to the north, east, west, and south of the site is designated as “Urban and Built-Up Land”.

The northern parcel of the subject property is currently utilized for scattered agricultural uses.

The Fresno General Plan MEIR analyzed “project specific” impacts associated with future development within the Planning Area (Sphere of Influence) as well as the cumulative impacts factored from future development in areas outside of the Planning Area. The MEIR identifies locations within the Planning Area that have been designated as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance through the Farmland Mapping and Monitoring Program (FMMP) of the California Department of Conservation. The analysis of impacts contained within the MEIR acknowledges that Fresno General Plan implementation anticipates all of the FMMP-designated farmland within the Planning Area being converted to uses other than agriculture. Furthermore, the MEIR acknowledges that the anticipated conversion is a significant impact on agricultural resources.

To reduce potential project-specific and cumulative impacts on agricultural uses, the General Plan incorporates objectives and policies, which include but are not limited to the following:

Objective G-5: While recognizing that the County of Fresno retains the primary responsibility for agricultural land use policies and the protection and advancement of farming operations, the City of Fresno will support efforts to preserve agricultural land outside of the area planned for urbanization and outside of the City’s public service delivery capacity by being responsible in its land use plans, public service delivery plans, and development policies.

G-5-b. Policy: Plan for the location and intensity of urban development in a manner that efficiently utilizes land area located within the planned urban boundary, including the North and Southeast Growth Areas, while promoting compatibility with agricultural uses located outside of the planned urban area.

G-5-f. Policy: Oppose lot splits and development proposals in unincorporated areas within and outside the City General Plan boundary when these proposals would do any of the following:

- Make it difficult or infeasible to implement the general plan; or,

- Contribute to the premature conversion of agricultural, open space, or grazing lands; or constitute a detriment to the management of resources and/or facilities important to the metropolitan area (such as air quality, water quantity and quality, traffic circulation, and riparian habitat).

RC-9-c. Policy: Farmland Preservation Program. In coordination with regional partners or independently, establish a Farmland Preservation Program. When Prime Farmland, Unique Farmland, or Farmland of Statewide Importance is converted to urban uses outside City limits, this program would require that the developer of such a project mitigate the loss of such farmland consistent with the

requirements of CEQA. The Farmland Preservation Program shall provide several mitigation options that may include, but are not limited to the following: Restrictive Covenants or Deeds, In Lieu Fees, Mitigation Banks, Fee Title Acquisition, Conservation Easements, Land Use Regulations, or any other mitigation method that is in compliance with the requirements of CEQA. The Farmland Preservation Program may be modeled after some of all of the programs described by the California Council of Land Trusts.

However, the MEIR recognizes that despite implementation of the objectives and policies of the Fresno General Plan, project and cumulative impacts on agricultural resources will remain significant; and, that no feasible measures in addition to the objectives and policies of the Fresno General Plan are available.

In 2014, through passage of Council Resolution No. 2014-225, the City of Fresno adopted Findings of Fact related to Significant and Unavoidable Effects as well as Statements of Overriding Considerations in order to certify MEIR SCH No. 2012111015 for purposes of adoption of the Fresno General Plan. Section 15093 of the California Environmental Quality Act requires the lead agency to balance the benefits of a proposed project against its unavoidable environmental risks in determining whether to approve the project.

The adopted Statements of Overriding Considerations for the MEIR addressed Findings of Significant Unavoidable Impacts within the categories/areas of Agricultural Resources; citing specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers as project goals, each and all of which were deemed and considered by the Fresno City Council to be benefits, which outweighed the unavoidable adverse environmental effects attributed to development occurring within the City of Fresno Sphere of Influence (SOI), consistent with the land uses, densities, and intensities set forth in the Fresno General Plan.

The project site is and continues to be further encompassed with urban development. The project site is a logical expansion for purposes of orderly development within existing City limits. Given these circumstances, the proposed project is consistent with the goals, objective and policies of the Fresno General Plan as referenced herein above; and, will not result in the premature conversion of agricultural lands or constitute a detriment to the management of agricultural resources and/or facilities important to the metropolitan area. Therefore, the project will have **no impact** related to important farmland.

b) Conflict with existing zoning for agricultural use or a Williamson Act contract?

The subject property is not subject to a Williamson Act agricultural land conservation contract. Therefore, the proposed project on the subject site will not affect existing agriculturally zoned or Williamson Act contract parcels. There would be **no impact**

related to agricultural zoning and Williamson Act contracts.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

The proposed project will not conflict with any forest land or Timberland Production or result in any loss of forest land. There would be **no impact** related to forest land or timberland.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

As noted above, the proposed project will not conflict with any forest land or Timberland Production or result in any loss of forest land. There is no forest land on-site or in the project vicinity. There would be **no impact** related to forest land.

e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

As discussed in Impact AG-1 of the MEIR, future development in accordance with the Fresno General Plan would result in the conversion of farmland to a non-agricultural use. The implementation of project development would not result in other changes in the existing environment that would impact agricultural land outside of the project boundary or Planning Area. In addition, development in accordance with the General Plan would not impact forest land as discussed in Section 7.2.1 of the Draft Master EIR. Therefore, the project would result in **no impact** on farmland or forest land involving other changes in the existing environment which fall outside of the scope of the analyses contained within the MEIR.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan (*e.g*., by having potential emissions of regulated criterion pollutants which exceed the San Joaquin Valley Air Pollution Control Districts (SJVAPCD) adopted thresholds for these pollutants)?			X	
b) 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 (including releasing emissions which exceed quantitative thresholds for ozone precursors)?			X	
c) Expose sensitive receptors to substantial pollutant concentrations?			X	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				X

Setting

The subject site is located in the City of Fresno and within the San Joaquin Valley Air Basin (SJVAB). This region has had chronic non-attainment of federal and state clean air standards for ozone/oxidants and particulate matter due to a combination of topography and climate. The San Joaquin Valley (Valley) is hemmed in on three sides by mountain ranges, with prevailing winds carrying pollutants and pollutant precursors from urbanized areas to the north (and in turn contributing pollutants and precursors to downwind air basins). The Mediterranean climate of this region, with a high number of sunny days and little or no measurable precipitation for several months of the year, fosters photochemical reactions in the atmosphere, creating ozone and particulate

matter. Regional factors affect the accumulation and dispersion of air pollutants within the SJVAB.

Air pollutant emissions overall are fairly constant throughout the year, yet the concentrations of pollutants in the air vary from day to day and even hour to hour. This variability is due to complex interactions of weather, climate, and topography. These factors affect the ability of the atmosphere to disperse pollutants. Conditions that move and mix the atmosphere help disperse pollutants, while conditions that cause the atmosphere to stagnate allow pollutants to concentrate. Local climatological effects, including topography, wind speed and direction, temperature, inversion layers, precipitation, and fog can exacerbate the air quality problem in the SJVAB.

The SJVAB is approximately 250 miles long and averages 35 miles wide, and is the second largest air basin in the state. The SJVAB is defined by the Sierra Nevada in the east (8,000 to 14,000 feet in elevation), the Coast Ranges in the west (averaging 3,000 feet in elevation), and the Tehachapi mountains in the south (6,000 to 8,000 feet in elevation). The Valley is basically flat with a slight downward gradient to the northwest. The Valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay. The Valley, thus, could be considered a "bowl" open only to the north.

During the summer, wind speed and direction data indicate that summer wind usually originates at the north end of the Valley and flows in a south-southeasterly direction through the Valley, through Tehachapi pass, into the Southeast Desert Air Basin. In addition, the Altamont Pass also serves as a funnel for pollutant transport from the San Francisco Bay Area Air Basin into the region.

During the winter, wind speed and direction data indicate that wind occasionally originates from the south end of the Valley and flows in a north-northwesterly direction. Also, during the winter months, the Valley generally experiences light, variable winds (less than 10 mph). Low wind speeds, combined with low inversion layers in the winter, create a climate conducive to high carbon monoxide (CO) and particulate matter (PM_{10} and $PM_{2.5}$) concentrations. The SJVAB has an "Inland Mediterranean" climate averaging over 260 sunny days per year. The Valley floor is characterized by warm, dry summers and cooler winters. For the entire Valley, high daily temperature readings in summer average 95ºF. Temperatures below freezing are unusual. Average high temperatures in the winter are in the 50s, but highs in the 30s and 40s can occur on days with persistent fog and low cloudiness. The average daily low temperature is 45ºF.

The vertical dispersion of air pollutants in the Valley is limited by the presence of persistent temperature inversions. Solar energy heats up the Earth's surface, which in turn radiates heat and warms the lower atmosphere. Therefore, as altitude increases, the air temperature usually decreases due to increasing distance from the source of heat. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. Inversions can exist at the surface or at any height above the

ground, and tend to act as a lid on the Valley, holding in the pollutants that are generated here.

Regulations

The San Joaquin Valley Air Pollution Control District (SJVAPCD) is the local regional jurisdictional entity charged with attainment planning, rulemaking, rule enforcement, and monitoring under Federal and State Clean Air Acts and Clean Air Act Amendments.

To aid in evaluating potentially significant construction and/or operational impacts of a project, SJVAPCD has prepared an advisory document, the Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI), which contains standard procedures for addressing air quality in CEQA documents. GAMAQI presents a three-tiered approach to air quality analysis. The Small Project Analysis Level (SPAL) is first used to screen the project for potentially significant impacts. A project that meets the screening criteria at this level requires no further analysis and air quality impacts of the project may be deemed less than significant. If a project does not meet all the criteria at this screening level, additional screening is recommended at the Cursory Analysis Level and, if warranted, the Full Analysis Level. The SPAL thresholds are provided by project type and by number of vehicle trips. By project type (for city park uses), the threshold is 256 acres. By vehicle trips (for city park), the threshold is 1,100 trips per day. According to the Transportation Impact Study prepared by Kittelson & Associates, the project would not increase the number of truck trips, vehicle trips, or other trips related to traffic and circulation. Instead, the project would redistribute existing trips, and decrease the average trip length associated with travel to regional parks/parks with soccer or football fields. Given that the project would not exceed the SPAL threshold by project size or by number of trips, the proposed project is considered to have less than significant impacts pertaining to air emissions and is excluded from quantifying criteria pollutant emissions for CEQA purposes, in accordance with the SJVAPCD GAMAQI.

SJVAPCD Regulation VIII mandates requirements for any type of ground moving activity and would be adhered to during construction; however, during construction, air quality impacts would be less than SJVAPCD thresholds for non-attainment pollutants and operation of the project would not result in impacts to air quality standards for criteria pollutants.

The SJVAPCD accounts for cumulative impacts to air quality in its GAMAQI. The SJVAPCD considered basin-wide cumulative impacts to air quality when developing its significance thresholds. The SJVAPCD's air quality significance thresholds represent the maximum emissions from a project that are not expected to conflict with the SJVAPCD's air quality plans, and is not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard. These are developed based on the ambient concentrations of the pollutant for each source. As noted above, because the project size is below the SPAL threshold, the project would not exceed the air quality significance thresholds on the project-level. Therefore, the project would not

otherwise conflict with the SJVAPCD's air quality plans, the project is consistent with the land use assumptions for the project site in the City's General Plan and MEIR, and the cumulative emissions would not be a significant contribution to a cumulative impact.

The proposed project would comply with the SJVAPCD's Regulation VIII dust control requirements during any proposed construction (including Rules 8011, 8031, 8041, and 8071). Compliance with this regulation would reduce the potential for significant localized PM10 impacts to less than significant levels.

DISCUSSION

a) **Conflict with or obstruct implementation of the applicable air quality plan?**

b) **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?**

As noted above, the SJVAPCD SPAL is first used to screen the project for potentially significant impacts. A project that meets the screening criteria at this level requires no further analysis and air quality impacts of the project may be deemed less than significant. Specifically, the SJVAPCD considers projects that meets its SPAL screening criteria to not conflict or obstruct implementation of an applicable air quality plan, or result in a cumulatively considerable net increase of any criteria pollutant. If a project does not meet all the criteria at this screening level, additional screening is recommended at the Cursory Analysis Level and, if warranted, the Full Analysis Level. For city park uses, the threshold (by project size) is 256 acres. For city park uses, the threshold (by vehicle trips) is 1,100 trips per day (according to the most recent version of the SJVAPCD' SPAL guidance document). Since the project would not exceed the SPAL project size or trip per day value, the proposed project is considered to have **less than significant** impacts pertaining to air emissions and is excluded from quantifying criteria pollutant emissions for CEQA purposes.

The growth projections used for the Fresno General Plan assume that growth in population, vehicle use and other source categories will occur at historically robust rates that are consistent with the rates used to develop the SJVAPCD's attainment plans. In other words, the amount of growth predicted for the General Plan is accommodated by the SJVAPCD's attainment plan and would allow the air basin to attain the 8-hour ozone standard by the 2023 attainment date. Future development on the subject property is required to comply with these rules and regulations providing additional support for the conclusion that it will not interfere or obstruct with the application of the attainment plans.

The proposed project will comply with the Resource Conservation Element of the Fresno General Plan and the Goals, Policies and Objectives of the Regional Transportation Plan adopted by the Fresno Council of Fresno County Governments;

therefore, the project will not conflict with or obstruct an applicable air quality plan.

Because the project site has been planned for Community Park (CP) development since the General Plan MEIR was adopted, and because the project would have less than significant project-level impacts related to criteria air pollutants, the cumulative increase of any criteria pollutant would also be less than significant. As noted above, the project would not otherwise conflict with the SJVAPCD's air quality plans, the project is consistent with the land use assumptions for the project site in the City's General Plan and MEIR, and the cumulative emissions would not be a significant contribution to a cumulative impact.

c) Expose sensitive receptors to substantial pollutant concentrations?

The SJVAPCD recommends that a screening analysis be performed to determine if a refined Health Risk Assessment (HRA) should be performed. The District's recommended method for screening risks is by using its prioritization calculator based on the California Air Pollution Control Officers Facility Prioritization Guidelines (August 2016). The prioritization calculator will provide a score based on the emission potency method. The prioritization score is an indicator of a facility's potential risk. Scores of 10 or greater indicate that a refined HRA should be prepared because there is the potential for a significant health risk. Scores less than 10 indicate that the project's TAC emissions are not a high risk.

The project would not emit TACs. As such, the TACs emitted from the project site would be equal or less than the existing condition. In addition, since the proposed project would not result in industrial development [i.e. that exceeds 100,000 sf of heavy industrial uses, which is an adopted threshold for conducting an Air Impact Assessment (AIA) in accordance with District Rule 9510 (Indirect Source Review)], an AIA application will not be submitted to the SJVAPCD for their review and approval. Therefore, a **less than significant** impact would result.

District Rule 9510 was adopted to reduce the impact of NOx and provide emission reductions needed by the SJVAPCD to demonstrate attainment of the federal PM_{10} standard and contributed reductions that assist in attaining federal ozone standards. Rule 9510 also contributes toward attainment of state standards for these pollutants. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through onsite mitigation, offsite SJVAPCD-administered projects, or a combination of the two. Compliance with SJVAPCD Rule 9510 reduces the emissions impacts through incorporation of onsite measures as well as payment of an offsite fee that funds emission reduction projects in the Air Basin. The emissions analysis for Rule 9510 is detailed and is dependent on the exact project design that is expected to be constructed or installed. Compliance with Rule 9510 is separate from the CEQA process, though the control measures used to comply with Rule 9510 may be used to mitigate significant air quality impacts.

In conclusion, the proposed project would not result in any air quality environmental impacts beyond those analyzed in the MEIR SCH No. 2012111015.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The proposed use, if approved, will be allowed on the subject site and will not expose sensitive receptors to substantial pollutant concentrations. The project is not proposing a use which will create objectionable odors more obnoxious than the current surrounding non-residential uses. Therefore, there will be **no impact** related to odors.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the air quality related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		X		
b) Have a substantial adverse effect on 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 or US Fish and Wildlife Service?				X

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		X		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?			X	

DISCUSSION

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?

The proposed project will not directly affect any sensitive, special status, or candidate species, nor would it modify any habitat that supports them.

The project site does not provide suitable habitat for any special-status plant or wildlife species. The project site is currently vacant except for some scattered agricultural uses. There are a small number of scattered trees located in the disturbance area. However, the presence of any special-status plant or wildlife species in the project disturbance area is highly unlikely.

Nevertheless, Mitigation Measure MM BIO-1 of MEIR SCH No. 2012111015 for the Fresno General Plan requires construction of a proposed project to avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction, to determine if the habitat supports any special-status species. If special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible.

Furthermore, Mitigation Measure MM BIO-2 of MEIR SCH No. 2012111015 for the Fresno General Plan requires that any direct or incidental take of any state or federally listed species should be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the California Department of Fish and Wildlife (CDFW) 2081 and Fish and Wildlife Service (USFWS) Section 7 or Section 10 permitting processes must take place prior to any action that may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to a listed species will be determined through agency consultation.

Mitigation Measure MM BIO-4 of MEIR SCH No. 2012111015 for the Fresno General Plan requires projects within the Planning Area to avoid, if possible, construction within the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA), if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey must be conducted to determine if any nesting birds or nesting activity is observed on or within 500-feet of a project site. If an active nest is observed during the survey, a biological monitor must be on site to ensure that no proposed project activities would impact the active nest. A suitable buffer will be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor.

With implementation of the MEIR mitigation measures discussed above, this impact would be **less than significant**.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?

Riparian habitat or any other sensitive natural community identified by the California Department of Fish and Game or the US Fish and Wildlife Service are not located on the subject property. In addition, no federally protected wetlands are located on the subject site. Therefore, there would be no impacts to riparian species or habitat or other sensitive wetland communities.

Natural communities of special concern are those that are of limited distribution, distinguished by significant biological diversity, home to special status plant and animal species, of importance in maintaining water quality or sustaining flows, etc. Examples of natural communities of special concern in the San Joaquin Valley could include: open, ruderal/nonnative grassland habitat, which is infrequently disturbed, vernal pools and various types of riparian forest. No natural communities of special concern were identified on the project site. As such, there would be **no impact** related to riparian habitat or other sensitive natural communities.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No state or federally protected wetlands are located on the subject site. Therefore, there would be no impacts to wetlands. As such, there would be **no impact** related to wetlands.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Wildlife movement corridors are areas where wildlife species regularly and predictably move during foraging, or during dispersal or migration. Movement corridors in California are typically associated with valleys, rivers and creeks supporting riparian vegetation, and ridgelines. Such geographic and topographic features are absent from the project site. Additionally, due to the presence of developed lands and urban uses surrounding the subject property, there is limited potential for project related activities to have an impact on the movement of wildlife species or established wildlife corridors.

Compliance with the biological Mitigation Measures of MEIR SCH No. 2012111015 for the Fresno General Plan (i.e. Mitigation Measures BIO-1 through BIO-4), through preparation of a pre-construction biological survey prior to construction, would occur to determine if the project site supports any special-status species. If a special-status species is determined to occupy any portion of a project site, avoidance and

minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible. Therefore, this impact would be **less than significant**.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Article 3, Street Trees and Parkways, of Chapter 13 of the Fresno Municipal Code contains the public tree policy, tree beautification and preservation regulations, and Special Tree List authorization. This is an existing standard and regulation that is enforced by the City of Fresno during the improvement/grading plan and/or building plan phase of a project.

There are some scattered trees located in the disturbance area. Since the project would be required to comply with Article 3, Street Trees and Parkways, of Chapter 13 of the Fresno Municipal Code, this impact would be **less than significant**.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No habitat conservation plans or natural community conservation plans in the region pertain to natural resources that exist on the subject site or in its immediate vicinity. As such, this impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the biological resource related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?			X	
c) Disturb any human remains, including those interred outside of formal cemeteries?			X	

DISCUSSION

a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

There are no structures which exist within the project area that are listed in the National or Local Register of Historic Places, and the subject site is not within a designated historic district. As such, this impact would be **less than significant**.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

There are no known archaeological or paleontological resources that exist within the project area. Nevertheless, there is some possibility that a buried archaeological resource may exist in the area and be obscured by development, fill, or other historic activities, leaving no surface evidence. Therefore, due to the ground disturbing activities that will occur as a result of the project, the measures within the MEIR SCH No. 2012111015 for the Fresno General Plan, Mitigation Monitoring Checklist to address archaeological resources, paleontological resources, and human remains will be employed to guarantee that should archaeological and/or animal fossil material be encountered during project excavations, then work shall stop immediately; and, that qualified professionals in the respective field are contacted and consulted in order to ensure that the activities of the proposed project will not involve physical demolition, destruction, relocation, or alteration of historic, archaeological, or paleontological resources. Implementation of the MEIR mitigation measures would ensure this impact is **less than significant**.

In conclusion, with implementation of the MEIR Cultural Resource Mitigation Measures incorporated herein below, the project will not result in any cultural resource impacts beyond those analyzed in MEIR SCH No. 2012111015.

c) Disturb any human remains, including those interred outside of formal cemeteries?

There is no evidence that cultural resources of any type (including historical, archaeological, paleontological, or unique geologic features) exist on the subject property. The project site is currently developed, and the area where the proposed storage addition and loading dock would be constructed is currently paved. Nevertheless, there is some possibility that a buried site may exist in the area and be obscured by development, fill, or other historic activities, leaving no surface evidence. Furthermore, previously unknown paleontological resources or undiscovered human remains could be disturbed during project construction.

Therefore, due to the ground disturbing activities that will occur as a result of the project, the measures within the MEIR SCH No. 2012111015 for the Fresno General Plan, Mitigation Monitoring Checklist to address archaeological resources (i.e. Mitigation Measures CUL-1 through CUL-4), paleontological resources, and human remains will be employed to guarantee that should archaeological and/or animal fossil material be encountered during project excavations, then work shall stop immediately; and, that qualified professionals in the respective field are contacted and consulted in order to ensure that the activities of the proposed project will not involve physical demolition, destruction, relocation, or alteration of historic, archaeological, or paleontological resources.

Currently, the Table Mountain Rancheria Tribe and the Dumna Wo Wah Tribe have requested to be notified pursuant to Assembly Bill 52 (AB 52). A certified letter was mailed to the above-mentioned tribes on March 1, 2021. The 30-day comment period ended on March 31, 2021. Both tribes did not request consultation.

Implementation of the MEIR mitigation measures would ensure this impact is **less than significant**.

In conclusion, with implementation of the MEIR Cultural Resource Mitigation Measures incorporated herein below, the project will not result in any cultural resource impacts beyond those analyzed in MEIR SCH No. 2012111015.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the cultural resource related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

DISCUSSION

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Appendix F of the State CEQA Guidelines requires consideration of the potentially significant energy implications of a project. CEQA requires mitigation measures to reduce "wasteful, inefficient and unnecessary" energy usage (Public Resources Code Section 21100, subdivision [b][3]). According to Appendix F of the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed project would be considered "wasteful, inefficient, and unnecessary" if it were to violate state and federal energy standards and/or result in significant adverse impacts related to project energy requirements, energy inefficiencies, energy intensiveness of materials, cause significant impacts on local and regional energy supplies or generate requirements for additional capacity, fail to comply with existing energy standards, otherwise result in significant adverse impacts on energy resources, or conflict or create an inconsistency with applicable plan, policy, or regulation.

The project includes construction and operation of a park and soccer complex, which includes the demolition of the existing building complex located on the site.

The purpose of the proposed expansion to the existing site facilities is to consolidate the charging areas to a single location. The number of employees and work hours will not change. The production capability of the site would also not increase. According to the project applicant, the project would not increase the number of truck trips, vehicle trips, or other trips related to traffic and circulation.

The amount of energy used at the project site during project operation would directly correlate to the size of the proposed buildings, the energy consumption of associated technology, and outdoor lighting. Other major sources of proposed project energy consumption include fuel used by vehicle trips generated during project and fuel used by off-road construction vehicles during construction. However, since the proposed project would not to generate net new trips, but instead would redistribute existing trips (Kittelson & Associates, 2021), the project is not anticipated to generate net energy consumption from vehicles during project operation (in fact, the project would generate a net reduction in energy consumption from vehicles during project operation). Moreover, since the proposed project would only be open from sunup to sundown, extensive use of on-site outdoor lighting would not be required.

The following discussion provides calculated levels of energy use expected for the proposed project, based on commonly used modelling software (i.e. CalEEMod and the California Air Resource Board's EMFAC2017).

On-Road Vehicles (Operation)

As noted previously, according to the project applicant, the project would not generate a net increase to the number of vehicle trips during project operation. Therefore, on-road vehicle energy usage and emissions as a result of project operation would not increase compared to the baseline condition.

On-Road Vehicles (Construction)

The proposed project would generate on-road vehicle trips during project construction (from construction workers and vendors). Estimates of vehicle fuel consumed were derived based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2021 gasoline MPG factors provided by EMFAC2017. For the purposes of simplicity, it was assumed that all vehicles used gasoline as a fuel source (as opposed to diesel fuel or alternative sources). Table 2, below, describes gasoline and diesel fuel used by on- road mobile sources during each phase of the construction schedule. As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed project would occur during the building construction phase. See Appendix A for a detailed calculation.

Table 2: On-Road Mobile Fuel Generated by Project Construction Activities – By Phase

Construction Phase	***# of Days***	***Total Daily Worker Trips[(a)]***	***Total Daily Vendor Trips[(a)]***	***Total Hauler Trips[(a)]***	***Gallons of Gasoline Fuel[(b)]***	***Gallons of Diesel Fuel[(b)]***
Demolition	20	15	-	91	158	1,850
Site Preparation	10	18	-	-	95	-
Grading	30	20	-	-	316	-
Building	22	338	132	-	3,922	2,952
Paving	20	15	-	-	158	-
Architectural	20	68	-	-	717	-
Total	**N/A**	**N/A**	**N/A**	**N/A**	**5,366**	**4,802**

NOTE: [(A)] PROVIDED BY CALEEMOD. [(B)]SEE APPENDIX A. SOURCE: CALEEMOD (V.2016.3.2); EMFAC2017.

Off-Road Vehicles (Construction)

Off-road construction vehicles would use diesel fuel during the construction phase of the proposed project. A non-exhaustive list of off-road constructive vehicles that may be used during the construction phase of the proposed project includes: cranes, forklifts, generator sets, welders, tractors, excavators, and dozers. Based on the total amount of CO_2 emissions expected to be generated by the proposed project (as provided by the CalEEMod output), and a CO_2 to diesel fuel conversion factor (provided by the U.S. Energy Information Administration), the proposed project would use a total of approximately 13,150 gallons of diesel fuel for off-road construction vehicles (during the site preparation and grading phases of the proposed project). Detailed calculations are provided in Appendix A.

Conclusion

The proposed project would use energy resources for the operation of the building addition (e.g. electricity), for on-road vehicle trips associated with construction (e.g. electricity, gasoline, and diesel fuel), and from off-road construction activities associated with the proposed project (e.g. diesel fuel). Each of these activities would require the use of energy resources.

The proposed project would be in compliance with all applicable Federal, State, and local regulations regulating energy usage. For example, PG&E is responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the State-wide Renewable Portfolio Standard (RPS) to increase the proportion of renewable energy (e.g. solar and wind) within its energy portfolio. PG&E is expected to achieve at least a 50% mix of renewable energy resources by 2030. Additionally, energy-saving regulations, including the latest State Title 24 building energy efficiency standards (“part 6”), would be applicable to the proposed project. Other State-wide measures, including those intended to improve the energy efficiency of the State-wide passenger and heavy-duty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel

economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time.

As a result, the proposed project would not result in any significant adverse impacts related to project energy requirements, energy use inefficiencies, and/or the energy intensiveness of materials by amount and fuel type for each stage of the project including construction, operations, maintenance, and/or removal. PG&E, the electricity and natural gas provider to the site, maintains sufficient capacity to serve the proposed project. The proposed project would comply with all existing energy standards, and would not result in significant adverse impacts on energy resources. For these reasons, the proposed project would neither result in a potentially significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation, nor conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In conclusion, energy impacts would be considered **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or Indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:			X	
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			X	
ii) Strong seismic ground shaking?			X	
iii) Seismic-related ground failure, including liquefaction?			X	
iv) Landslides?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Result in substantial soil erosion or the loss of topsoil?			X	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?			X	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?			X	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?			X	
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		X		

DISCUSSION

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii. Strong seismic ground shaking?

iii. Seismic-related ground failure, including liquefaction?

iv. Landslides?

Fresno has no known active earthquake faults and is not in any Alquist-Priolo Special Studies Zones. The immediate Fresno area has extremely low seismic activity levels, although shaking may be felt from earthquakes whose epicenters lie to the east, west, and south. Known major faults are over 50 miles distant and include the San Andreas Fault, Coalinga area blind thrust fault(s), and the Long Valley, Owens Valley, and White Wolf/Tehachapi fault systems. The most serious threat to Fresno from a major earthquake in the Eastern Sierra would be flooding that could be caused by damage to dams on the upper reaches of the San Joaquin River.

Fresno is classified by the State as being in a moderate seismic risk zone, Category "C" or "D," depending on the soils underlying the specific location being categorized and that location's proximity to the nearest known fault lines. All new structures are required to conform to current seismic protection standards in the California Building Code. Seismic upgrade/retrofit requirements are imposed on older structures by the City's Planning and Development Department as may be applicable to building modification and rehabilitation projects.

There are no geologic hazards or unstable soil conditions known to exist on the site. The project site lacks topography or significant slopes. The project site mostly vacant with scattered agricultural uses, and the project is considered an infill development. Therefore, this impact would be **less than significant**.

b) Result in substantial soil erosion or the loss of topsoil?

The proposed project would include disturbance of approximately 49.04 acres. The disturbance area is currently moderately disturbed and developed some scattered agricultural uses, including a small building complex. The flat topography of the site, coupled with the size and the developed nature of the site, would not result in the potential for soil erosion. Therefore, this impact would be **less than significant**.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

As noted above, there are no geologic hazards or unstable soil conditions known to exist on the site. The existing topography is relatively flat with no apparent unique or significant land forms such as vernal pools. Development of the property requires compliance with grading and drainage standards of the City of Fresno. A civil engineer or soils engineer registered in this state shall complete a Soils Investigation and Evaluation Report. The investigation will address the detail of the configuration, location, type of loading of the proposed structures and drainage plan. The report shall provide detailed recommendation for foundations, drainage, and other items. The

preparation of the Soils Investigation and Evaluation Report is an existing standard. Therefore, this impact would be **less than significant**.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?

No adverse environmental effects related to topography, soils or geology are expected as a result of this project. Therefore, this impact would be **less than significant**.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The project site is currently served by City sanitary sewer facilities, and septic tanks or alternative waste water disposal systems would not be required. Therefore, this impact would be **less than significant**.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

As noted in Section V, Cultural Resources, there are no known paleontological resources that exist within the project area. Nevertheless, there is some possibility that a buried paleontological resource may exist in the area and be obscured by development, fill, or other historic activities, leaving no surface evidence. Therefore, due to the ground disturbing activities that will occur as a result of the project, the measures within the MEIR SCH No. 2012111015 for the Fresno General Plan, Mitigation Monitoring Checklist to address archaeological resources, paleontological resources, and human remains (i.e. Mitigation Measures CUL-1 through CUL-4) will be employed to guarantee that should archaeological and/or animal fossil material be encountered during project excavations, then work shall stop immediately; and, that qualified professionals in the respective field are contacted and consulted in order to ensure that the activities of the proposed project will not involve physical demolition, destruction, relocation, or alteration of historic, archaeological, or paleontological resources. Implementation of the MEIR mitigation measures would ensure this impact is **less than significant with mitigation incorporated**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the cultural resource related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			X	

Background

Various gases in the Earth's atmosphere, classified as atmospheric greenhouse gases (GHGs), play a critical role in determining the Earth's surface temperature. Solar radiation enters Earth's atmosphere from space, and a portion of the radiation is absorbed by the Earth's surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation.

Naturally occurring greenhouse gases include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and ozone (O_3). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also greenhouse gases, but they are, for the most part, solely a product of industrial activities. Although the direct greenhouse gases CO_2, CH_4, and N_2O occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2011, concentrations of these three greenhouse gases have increased globally by 40, 150, and 20 percent, respectively (Intergovernmental Panel on Climate Change [IPCC], 2013).

Greenhouse gases, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into

space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs).

The emissions from a single project will not cause global climate change, however, GHG emissions from multiple projects throughout the world could result in a cumulative impact with respect to global climate change. Therefore, the analysis of GHGs and climate change presented in this section is presented in terms of the proposed project's contribution to cumulative impacts and potential to result in cumulatively considerable impacts related to GHGs and climate change.

Cumulative impacts are the collective impacts of one or more past, present, and future projects that, when combined, result in adverse changes to the environment. In determining the significance of a proposed project's contribution to anticipated adverse future conditions, a lead agency should generally undertake a two-step analysis. The first question is whether the *combined* effects from *both* the proposed project *and* other projects would be cumulatively significant. If the agency answers this inquiry in the affirmative, the second question is whether "the proposed project's *incremental* effects are cumulatively considerable" and thus significant in and of themselves. The cumulative project list for this issue (climate change) comprises anthropogenic (i.e., human-made) GHG emissions sources across the globe and no project alone would reasonably be expected to contribute to a noticeable incremental change to the global climate. However, legislation and executive orders on the subject of climate change in California have established a statewide context and process for developing an enforceable statewide cap on GHG emissions. Given the nature of environmental consequences from GHGs and global climate change, CEQA requires that lead agencies consider evaluating the cumulative impacts of GHGs. Small contributions to this cumulative impact (from which significant effects are occurring and are expected to worsen over time) may be potentially considerable and, therefore, significant.

Significance Thresholds

Governor's Office of Planning and Research's (OPR's) Guidance does not include a quantitative threshold of significance to use for assessing a project's GHG emissions under CEQA. Moreover, the California Air Resources Board (CARB) has not established such a threshold or recommended a method for setting a threshold for project-level analysis. In the absence of a consistent statewide threshold, a threshold of significance for analyzing the project's GHG emissions was developed. The issue of setting a GHG threshold is complex and dynamic, especially in light of the California Supreme Court decision in *Center for Biological Diversity v. California Department of Fish and Wildlife* (referred to as the Newhall Ranch decision hereafter). The California Supreme Court ruling also highlighted the need for the threshold to be tailored to the specific project type, its location, and the surrounding setting. Therefore, the threshold used to analyze the project is specific to the analysis herein and the City retains the ability to develop and/or

use different thresholds of significance for other projects in its capacity as lead agency and recognizing the need for the individual threshold to be tailored and specific to individual projects.

The SJVAPCD provides guidance for addressing GHG emissions under CEQA. The SJVAPCD guidance regarding evaluating GHG significance notes that if a project complies with an adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions, then impacts related to GHGs would be less than significant. The applicable plan for reduction or mitigation of GHG emissions for the proposed project is the City's Greenhouse Gas Reduction Plan. Additionally, the SJVAPCD requires quantification of GHG emissions for all projects which the lead agency has determined that an EIR is required. Although an EIR is not required for the proposed project, the GHG emissions are quantified below, followed by a consistency analysis with the Fresno Council of Governments Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) and the Fresno Greenhouse Gas Reduction Plan.

DISCUSSION

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. Implementation of the proposed project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to future development would be primarily associated with increases of CO_2 and other GHG pollutants, such as CH_4 and N_2O, from mobile sources and utility usage.

The proposed project's short-term construction-related and long-term operational GHG emissions for buildout of the proposed project, were estimated using CalEEMod™ (v.2016.3.2). CalEEMod is a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Emissions are expressed in annual metric tons of CO_2 equivalent units of measure (i.e., $MTCO_2e$), based on the global warming potential of the individual pollutants.

Short-Term Construction GHG Emissions

Estimated increases in GHG emissions associated with construction of the proposed project are summarized in Table 3.

Table 3: Construction GHG Emissions (Unmitigated Metric Tons Per Year)

Year	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e
2021	0.0000	256.7305	256.7305	0.0600	0.0000	258.2312
Maximum	**0.0000**	**256.7305**	**256.7305**	**0.0600**	**0.0000**	**258.2312**

SOURCE: CALEEMOD (V.2016.3.2).

As presented in the table, maximum short-term annual construction emissions of GHG associated with development of the project are estimated to be 258.2312 $MTCO_2e$ (2021). These construction GHG emissions are a one-time release and are comparatively much lower than emissions associated with operational phases of a project. Cumulatively, these construction emissions would not generate a significant contribution to global climate change.

Long-Term Operational GHG Emissions

The long-term operational emissions estimate for buildout of the proposed project, incorporates the potential area source and vehicle emissions, and emissions associated with utility and water usage, and wastewater and solid waste generation.

Estimated GHG emissions associated with the buildout of the proposed project is summarized in Table 4. As shown in the following table, the annual GHG emissions associated with buildout of the proposed project would be approximately 35.6719 $MTCO_2e$.

Table 4: Operational GHG Emissions (Metric Tons Per Year)

Category	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e
Area	0.0000	0.00087	0.00087	0.0000	0.0000	0.00092
Energy	0.0000	12.2919	12.2919	0.00056	0.00011	12.3401
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	0.3228	0.0000	0.3228	0.0191	0.0000	0.7996
Water	0.0000	22.4434	22.4434	0.00101	0.00021	22.5313
Total	**0.3228**	**34.7362**	**35.0589**	**0.0206**	**0.00032**	**35.6719**

SOURCE: CALEEMOD (V.2016.3.2).

Fresno Council of Governments RTP/SCS

The Fresno Council of Governments adopted the RTP/SCS in July 2018. The RTP/SCS comprehensively assesses all forms of transportation available in Fresno County as well as travel and goods movement needs through 2042. The RTP/SCS is required by Senate Bill 375. The 2018 RTP reflects the federal directives embodied

in both the Fixing America's Surface Transportation Act (FAST Act) and the Clean Air Act Amendments of 1991. These acts require that projects in RTPs be "constrained" to only those that can actually be delivered with reasonably expected funds, and that those projects help attain and maintain air quality standards. The RTP contains four main required elements that are discussed below. However, the Fresno Council of Governments RTP includes additional elements or chapters regarding the regional context of the RTP, public participation, environmental justice analysis and transportation performance management.

Chapter 2 of the RTP/SCS contains goals, objectives, and policies in order to address the transportation needs of the Fresno region and quantify regional needs in the 25-year planning horizon. One of the policies in Table 2-1A of the RTP/SCS aims to encourage infill development in areas that take advantage of remaining capacity in existing transportation facilities. The proposed project is considered an infill development. The purpose of the proposed expansion to the existing site facilities is to consolidate the charging areas to a single location. Another policy aims to provide a transit system that meets the public transportation needs of the service area. The project site is approximately 0.9 miles from a Fresno Area Express Route 26 bus stop (located at Butler Avenue / Chestnut Avenue). Route 26 has stops in the southeastern portion of the City Fresno. This route stops at or near the following points of interest: Fresno Yosemite International Airport, Fresno Pacific University, Fairgrounds, Mosqueda Community Center, Downtown Transit Center, Fresno Area Express Administrative Office, Tower District, Fresno High, Hamilton K-8, and Bullard High School. Therefore, the proposed project would be located in an area that is currently served by Fresno Area Express.

As demonstrated above, the proposed project would be generally consistent with the goals and strategies of the RTP/SCS.

Conclusion

As demonstrated above, the proposed project would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. Therefore, this impact would be **less than significant**.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Fresno Greenhouse Gas Reduction Plan

The City's MEIR SCH No. 2012111015 for the Fresno General Plan includes a Greenhouse Gas Reduction Plan (see Appendix F-2 of the MEIR). The Greenhouse Gas Reduction Plan provides a comprehensive assessment of the benefits of these General Plan and Development Code Update policies along with existing plans, programs, and initiatives that reduce greenhouse gas emissions. In addition, the

Greenhouse Gas Reduction Plan includes an emission reduction target for demonstrating consistency with State GHG reduction targets.

The General Plan and MEIR rely upon a Greenhouse Gas Reduction Plan that provides a comprehensive assessment of the benefits of city policies and proposed code changes, existing plans, programs, and initiatives that reduce greenhouse gas emissions. The plan demonstrates that even though there is increased growth, the City would still be reducing greenhouse gas emissions through 2020 and per capita emission rates drop substantially. The benefits of adopted regulations become flat in later years and growth starts to exceed the reductions from all regulations and measures. Although it is highly likely that regulations will be updated to provide additional reductions, none are reflected in the analysis since only the effect of adopted regulations is included.

The City's General Plan designates the project area as Community Park (CP). The analysis included in the City's General Plan EIR assumed that the site would be developed with community park uses. The project would not increase development beyond the level assumed for the site in the City's General Plan EIR and the associated Greenhouse Gas Reduction Plan. Because the Greenhouse Gas Reduction Plan analyzed the Fresno General Plan land use capacity, the GHG emissions resulting from the proposed project (i.e., approximately 35.7 $MTCO_2e$ during operation and approximately 258.2 $MTCO_2e$ during construction [2021]) would be less than anticipated in the Greenhouse Gas Reduction Plan.

Conclusion

The short-term annual construction emissions of GHG associated with development of the project are estimated to be 258.2 $MTCO_2e$ (2021). As stated previously, short-term construction GHG emissions are a one-time release of GHGs and are not expected to significantly contribute to global climate change over the lifetime of the proposed project. The annual operational GHG emissions associated with buildout of the proposed project would be approximately 35.7 $MTCO_2e$. Additionally, the project would be generally consistent with the goals and policies of the Fresno Council of Governments RTP/SCS and the Fresno Greenhouse Gas Reduction Plan.

The proposed project will not occur at a scale or scope with potential to contribute substantially or cumulatively to the generation of greenhouse gas emissions, either directly or indirectly, or conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. Therefore, this impact would be **less than significant**.

In conclusion, the proposed project would not result in any greenhouse gas emission environmental impacts beyond those analyzed in MEIR SCH No. 2012111015 for the Fresno General Plan.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIAL – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		X		
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			X	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?		X		
e) For a project located within 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 result in a safety hazard for people residing or working in the project area?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			X	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			X	

DISCUSSION

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

The project is a park and soccer complex. The project itself will not generate or use hazardous materials in a manner outside health department requirements. Therefore, this impact would be **less than significant**.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

As shown in historical aerial photographs available on Google Earth, the project site has been developed with scattered agricultural uses and a building complex since at least 1998.

According to GeoTracker, there is one site within 0.25-mile of the project site:

- USDA Agricultural Research (Site # T0601900555): This site is a Leaking Underground Storage Tank (LUST) Cleanup Site with a cleanup status of Completed – Case Closed as of April 4, 1996. This site is located approximately 0.25 miles north of the project site. The potential contaminant of concern was diesel. The cleanup oversight agencies for this site are Fresno County and the Central Valley Regional Water Quality Control Board.

No other hazardous sites are documented in the immediate project vicinity.

A Phase I Site Assessment was prepared for the proposed project (Wallace & Kuhl Associates, 2020). The Phase I Site Assessment identified that there are no RECs in connection with the project site except the following:

- On-site concerns were noted from the mixing of agricultural chemicals adjacent to irrigation wells as reported by a USDA staff member in 1985.
- On-site concerns were noted from the historical agriculture activities including the raising of vineyards and orchards and the potential for residues of historically applied persistent pesticides.
- On-site concerns were noted from the historical presence of structures on the northern project site parcel from at least 1937 to 2020 and on southern site parcel from at least 1937 to at least 1979 and the potential for residues of historically applied persistent pesticides (termiticides) and lead from lead-based paint to be present in surface soils in the vicinity of the structures. The concerns are noted from structures that were constructed before 1975 for lead and before 1988 for persistent pesticides.
- On-site concerns were noted regarding the petroleum hydrocarbon impacted soils that were left in-place beneath two structures in Area A after the removal of USTs.

Based on the conclusions presented within the Phase I Site Assessment, it is recommended that the project implement and incorporate the following measures (as incorporated into Project-specific Mitigation Measure HAZ-1):

- Collect soil samples to evaluate for the potential presence of organochlorine pesticides, and arsenic related to the past agricultural operations at the site;
- Collect soil samples from the vicinity of the historical structures to evaluate the potential presence of termiticides or lead from lead-based paint;
- Abandon any irrigation wells and any other wells or septic systems that are uncovered during development activities in accordance with local, state, and federal regulations;
- Evaluate any soils uncovered during development activities that exhibit evidence of petroleum hydrocarbon impacts, such as staining or odors;
- If USTs are discovered during future assessment activities, take the appropriate steps to remove.

Through implementation of these project-specific measures, the impact would be **less than significant with mitigation incorporated**.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

The nearest school, Ayer Elementary School, is located approximately 0.43 miles

north of the site. The project itself will not generate or use hazardous materials in a manner outside health department requirements. Therefore, this impact would be **less than significant**.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

A Phase 1 Site Assessment has been prepared for the proposed project. There are no known existing hazardous material conditions on the property and the property is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Nevertheless, the project would be required to implement project-specific measures, as identified under Impact b).

Through implementation of these project-specific measures, the impact would be **less than significant with mitigation incorporated**.

e) For a project located within 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 result in a safety hazard for people residing or working in the project area?

The project area is not located in an FAA-designated Runway Protection Zone, Inner Safety Zone and Sideline Safety Zone according to review of the Downtown Fresno Chandler Airport and Yosemite International Airport Existing Safety Zones Maps. Based upon the goals of the proposed project, no potential interference with an adopted emergency response or evacuation plan has been identified. Therefore, this impact would be **less than significant**.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

The project site would contain a total of five entry points, at full buildout (of both the norther and southern parcels). Emergency vehicles will be able to access the project site from any of these entry points. Project review for compliance with fire and life safety requirements are reviewed by both the Fire Department and the Building and Safety Services Section of the Planning and Development Department when a submittal for building plan review is made as required by the California Building Code. Therefore, this impact would be **less than significant**.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

The subject property is not located within any wildland fire hazard zones. Therefore, this impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the hazards and hazardous materials related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.
2. The proposed project shall implement and incorporate the hazards and hazardous materials related mitigation measure as identified in the attached Project Specific Mitigation Monitoring Checklist dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?		X		
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			X	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:			X	
i) Result in a substantial erosion or siltation on- or off-site;		X		

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site:		X		
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or		X		
iv) impede or redirect flood flows?			X	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			X	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			X	

DISCUSSION

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Chapter 6, Municipal Services and Utilities, Article 7, Urban Storm Water Quality Management and Discharge Control, of the Fresno Municipal Code establishes provisions regarding stormwater discharges. The purpose and intent of Article 7 is to ensure the health, safety, and general welfare of residents, and to protect the water quality of surface water and groundwater resources in a manner pursuant to and consistent with the Federal CWA by reducing pollutants in urban stormwater, discharges to the maximum extent practicable, and by effectively prohibiting non-stormwater discharges to the storm drain system. Chapter 12, Impact Fees, Historic Resources, and Other Miscellaneous Topics, Section 12-2304, Development Application, Infrastructure Improvement Plans, and Building Permit Review and Processing Timelines, outlines the City's grading plan check process. The grading

plan check process is a review process that requires anyone who develops property:

1. Properly grade their property in accordance with the CBC.
2. Submit a grading plan showing the proposed grading of the development.
3. Obtain approval of the Fresno Metropolitan Flood Control District indicating conformance of the grading plan with the Storm Drainage Master Plan.
4. Obtain coverage under the NPDES Construction General Permit and comply with the requirements of the permit, including developing an erosion control site plan.

Runoff resulting from the proposed new impervious surfaces, and construction and operation of the project would be subject to the City's water quality standards and review process. Therefore, this impact would be **less than significant with mitigation incorporated**.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

On January 17, 2014, the Governor of California, proclaimed a State of Emergency in the State of California due to severe drought conditions. On April 25, 2014 and April 1, 2015, the Governor signed Executive Orders directing the State Water Resources Control Board ("State Water Board") to adopt emergency regulations to ensure urban water suppliers implement drought response plans to limit outdoor irrigation and other wasteful water practices. California Water Code Section 1058.5 grants the State Water Board the authority to adopt emergency regulations during a period when the Governor has issued a proclamation of emergency based upon drought conditions or in response to drought conditions that exist, or are threatened, in a critically dry year immediately preceded by two or more consecutive below normal, dry, or critically dry years.

On July 15, 2014, the State Water Board adopted an emergency regulation for urban water conservation requiring each urban water supplier to implement the stage of its water shortage contingency plan that imposes restrictions on outdoor irrigation, which resulted in the City of Fresno implementing Stage 2 of its Water Shortage Contingency Plan.

On May 5, 2015, the State Water Board adopted additional emergency regulations for urban water conservation, requiring the City of Fresno to reduce its water usage by 28% compared to 2013 and impose additional prohibitions on water use beginning June 1, 2015, through February 28, 2016. In 2015, the City of Fresno implemented additional water conservation measures resulting in 23% reduction in the City's water usage in 2015 and 2016.

On August 29, 2016, the Governor signed into law SB 814, which required the City of

Fresno to define “excessive use” regarding water usage, and to establish a method to identify and discourage excessive water use.

California received record precipitation in the winter of 2017, resulting in mountain snowpack at 164% of the season average and on April 7, 2017, the Governor declared an end to California’s drought emergency for all but Fresno, Kings, Tulare, and Tuolumne Counties in the state of California by Executive Order B-40-17. Executive Order B-40-17 directed the State Water Board to make permanent prohibitions on certain practices which do not conserve water.

On April 26, 2017, the State Water Board rescinded mandatory water conservation standards statewide, but left in effect prohibitions on certain water uses and required certain water conservation activities at all times in the City of Fresno comports with the Governor’s Executive Order. In October, 2017, the City of Fresno amended the FMC to update specific prohibitions against wasteful water use practices to comport with state regulations, established a new definition for excessive water use, updated outdoor watering restrictions based on drought stage declarations, and changed the enforcement fine schedule for violations of prohibited water use practices. The City of Fresno adopted further water conservation revisions to the FMC in April, 2019, defining Excessive Water Use for customers in single-family residences or multi-unit housing in which each unit is individually metered or sub-metered, as using potable water in excess of the maximum gallons per hour, depending on the City’s current Water Shortage Contingency Plan stage, during days or hours when outdoor irrigation is prohibited, more than one day during the monthly billing period, as recorded by the City. The maximum gallons per hour are: Stage 1 - 400 gallons per hour recommended. Stage 2 - 400 gallons per hour. Stage 3 - 350 gallons per hour. Stage 4 - 300 gallons per hour. Fresno is one of the largest cities in the United States that still maintains a significant reliance on groundwater as part of its public water supply portfolio. Surface water treatment and distribution has been implemented in the northeastern part of the City since 2004 and in the southeastern part of the City in 2018, but the City is still subject to an EPA Sole Source Aquifer designation. While the aquifer underlying Fresno typically exceeds a depth of 300-feet and is capacious enough to provide adequate quantities of safe drinking water to the metropolitan area well into the twenty-first century, groundwater degradation, increasingly stringent water quality regulations, and an historic trend of high consumptive use of water on a per capita basis (currently 205 gallons per day per capita), have resulted in a general decline in aquifer levels, increased cost to provide potable water, and localized water supply limitations.

The City’s groundwater aquifer has been documented by the State Department of Water Resources (Bulletin 118 - Interim Update 2016) to be critically over-drafted, and has been designated a high-priority basin for corrective action through the Sustainable Groundwater Management Act (SGMA). In January 2020, the North Kings Groundwater Sustainability Agency (GSA) filed the Groundwater Sustainability Plan (GSP) with the State of California.

Adverse groundwater conditions of limited supply and compromised quality have been well documented by planning, environmental impact report and technical studies over the past 20 years including the Master Environmental Impact Report No. 2012111015 for the Fresno General Plan, the MEIR 10130 for the 2025 Fresno General Plan, Final EIR No.10100, Final EIR No.10117 and Final EIR No. SCH 95022029 (Fresno Metropolitan Water Resource Management Plan), et al. These conditions include water quality degradation due to contamination from 1,2-dibromo-3-chloropropane (DBCP), ethylene- dibromide (EDB), trichloroethylene (TCE), 1,2,3-trichloropropane (TCP), tetrachloroethylene (PCE), 1,1-dichloroethane (DCE), nitrate, and from naturally occurring arsenic, iron, manganese, and radon concentrations; low water well yields in some parts of the City; limited aquifer storage capacity from over-utilization; limited recharge activities; and, intensive urban or semi-urban development occurring up- gradient from the Fresno Metropolitan Area.

This mitigated negative declaration prepared for the proposed project is tiered from MEIR SCH No. 2012111015) prepared for the Fresno General Plan, which contains measures to mitigate projects' individual and cumulative impacts to groundwater resources and to reverse the groundwater basin's overdraft conditions.

The City of Fresno is actively addressing these issues through citywide metering and updating water use targets and the water shortage contingency plan in the City's Urban Water Management Plan (UWMP). The Fresno Metropolitan Water Resource Management Plan, which has been adopted and the accompanying Final EIR (SCH #95022029) certified. The purpose of these management plans is to provide safe, adequate, and dependable water supplies in order to adequately meet existing and the future needs of the metropolitan area in an economical manner; protect groundwater quality from further degradation and overdraft; and, provide a plan of reasonably implementable measures and facilities. City water wells, pump stations, recharge facilities, water treatment and distribution systems have been expanded incrementally to mitigate increased water demands and respond to groundwater quality challenges.

In response to the need for a comprehensive long-range water supply and distribution strategy, the Fresno General Plan recognizes regional water resource planning efforts, such as, the Kings Basin's Integrated Regional Water Management Plan, the Fresno- Area Regional Groundwater Management Plan, and City of Fresno Metropolitan Water Resource Management Plan and cites the findings of the City of Fresno 2015 UWMP. The purpose of these management plans is to provide safe, adequate, and dependable water supplies on order to adequately meet existing and future needs of the Kings Basin regions and the Fresno-Clovis metropolitan area in an economical manner; protect groundwater quality from further degradation and overdraft; and, provide a plan of reasonably implementable measures and facilities.

The 2015 Urban Water Management Plan, Figure 4-3 (incorporated by reference) illustrates the City of Fresno's goals to achieve a 'water balance' between supply and

demand while decreasing reliance upon and use of groundwater. To achieve these goals the City is implementing a host of strategies, including:

- Intentional groundwater recharge through reclamation at the City's groundwater recharge facility at Leaky Acres (located northwest of Fresno-Yosemite international Airport), refurbish existing streams and canals to increase percolation, and recharge at Fresno Metropolitan Flood Control District's (FMFCD) storm water basins;

- Increase use of existing surface water entitlements from the Kings River, United States Bureau of Reclamation and Fresno Irrigation District for treatment at the Northeast Surface Water Treatment Facility (NESWTF) and the Southeast Surface Water Treatment Facility (SESWTF); and

- Recycle wastewater at the Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF) for treatment and re-use for irrigation, and to percolation ponds for groundwater recharge. Further actions include the General Plan, Policy RC-6- d to prepare, adopt and implement a City of Fresno Recycled Water Master Plan. It should be noted that significant investments towards recycling water have already been made, including a substantial amount of new recycled water improvements that are already in use.

The City has indicated that groundwater wells, pump stations, recharge facilities, water treatment and distribution systems shall be expanded incrementally to mitigate increased water demands. One of the primary objectives of Fresno's future water supply plans detailed in Fresno's Metropolitan Water Resources Management Plan, 2010 & 2015 UWMPs is to balance groundwater operations through a host of strategies. Through careful planning, Fresno has designed a comprehensive plan to accomplish this objective by increasing utilization of surface water supplies through expansion of surface water treatment facilities, intentional recharge, and conservation, thereby reducing groundwater pumping. The City continually monitors impacts of land use changes and development project proposals on water supply facilities by assigning fixed demand allocations to each parcel by land use as currently zoned or proposed to be rezoned.

Until 2004, groundwater was the sole source of water for the City. In June 2004, the 30 Million Gallon Per Day (MGD) Northeast Surface Water Treatment Facility ("NESWTF") began providing Fresno with water treated to drinking water standards and in May 2018, the 54 MGD Southeast Surface Water Treatment Facility ("SESWTF") became operational. In order to meet demands anticipated by the growth implicit in the 2035 Fresno General Plan further construction of surface water treatments facilities and recycled water facilities will be required. Surface water is used to replace lost groundwater through Fresno's intentional recharge program at the City-owned Leaky Acres, Nielsen Recharge Facility, and smaller facilities in Southeast Fresno. Fresno holds contracts to surface water supplies from Millerton Lake and

contractual rights to surface water from Pine Flat Reservoir. In 2010, Fresno renewed its contract with the United States Bureau of Reclamation, which entitles the City to 60,000 acre-feet per year of Class 1 water into the extended future. This water supply has further increased the reliability of Fresno's water supply.

Also, during the period 2005 to 2014, Fresno updated its Metropolitan Water Resources Management Plan designed to ensure the Fresno metro area has a reliable water supply through 2025. The plan implements a conjunctive use program, combining groundwater, treated surface water, intentional recharge and an enhanced water conservation program.

The use of groundwater will continue to be an important part of the City's supply but will not be relied upon as heavily as has historically been the case. The 2015 UWMP shows that groundwater pumped by the City has decreased from approximately 148,006 AF/year in 2008 to approximately 83,360 AF/year in 2015. With the 54-MGD SESWTF (expandable to 80-MGD) having come online since, further groundwater pumping reductions have been realized. The projected total estimated groundwater yield for the 2040 is approximately 148,900 AF/year, inclusive of intentional recharge (Table 6-3, 2015 UWMP). In order to meet future demand projections, the City is planning to rely on expanding their delivery and treatment of surface water supplies and groundwater recharge activities.

The City has been adding to and upgrading its water supplies through capital improvements, including adding pipelines to distribute treated surface water as previously discussed. Additionally, in 2009, the treatment capacity of the Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF) was improved. The City has recently been providing tertiary treatment at some of its wastewater treatment plants to supply tertiary treated recycled water for landscape irrigation to new growth areas and the North Fresno Wastewater Reclamation Facilities Satellite Plant was developed to serve the Copper River development and golf course in the northern part of Fresno.

The RWRF produces recycled water of secondary treatment level that meets Title 22 California Code of Regulations and can be used to irrigate fields with alfalfa, silage corn, Sudangrass and other fiber crops not used for human consumption. Approximately 12%-15% of the total acre- feet of wastewater that is treated at the reclamation facility goes for direct reuse to farmers leasing land within the RWRF boundaries or to neighboring farmers.

In addition, the General Plan policies require the City to maintain a comprehensive conservation program to help reduce per capita water usage, and includes conservation programs such as landscaping standards for drought tolerance, irrigation control devices, leak detection and retrofits, water audits, public education and implementing US Bureau of Reclamation Best Management Practices for water conservation to maintain surface water entitlements.

The City also has implemented an extensive water conservation program which is detailed in Fresno's current UWMP. The City implemented a residential water meter program; installing and metering water service for all single-family residential customers in the City by 2013. All residential customers are now metered. In terms of water conservation efforts, the recent completion of the residential meter installation project realized the single largest reduction of water use. Prior to initializing the meter installation project water use in the City was at a high of 168,122 AF/year in 2008 (Table 4-1, 2015 UWMP). At completion of the meter installation project water use dropped to 135,595 AF/year. Although implementation of this project occurred during the economic downturn, water use has remained at or below this value, except in 2013 when there was a noticeable jump in use.

Fresno continues to periodically update its water management plans to ensure the cost-effective use of water resources and continued availability of groundwater and surface water supplies. In addition, FMC Section 6-536 provides that the City Council may require all development not yet constructed to be subjected to the water findings procedure of the Woodward Park Community Plan, adopted by the Council on December 5, 1989, for determining if an adequate supply of water is available. In such situations the Council may impose conditions of approval deemed necessary by the Public Works Director or the Fire Chief which will ensure that an adequate supply of water is available at the time of occupancy of the development. These conditions of approval may include but are not limited to construction of facilities to enhance the supply or delivery of water to the development.

In accordance with the provisions of the Fresno General Plan and Master EIR No. 2012111015 mitigation measures, project specific water supply and distribution requirements must assure that an adequate source of water is available to serve the project. SGMA compliance requirements are incorporated into the water supply conditions of approval for the project.

The project includes construction and operation of a park and soccer complex on the approximately 49.04-acre project site. The project would include restrooms as well as outdoor irrigation systems for the grass turf soccer fields. A Water Supply Assessment (WSA) was prepared by West Yost. According to the WSA, the demand within the City's service area is not expected to exceed the City's supplies in any normal, single dry, or multiple dry year between 2020 and 2040, inclusive of development and operation of the proposed project.

Moreover, the City's General Plan designates the project area as Community Park (CP). The analysis included in the City's General Plan EIR assumed that the site would be developed with Community Park (CP) uses. The project would not increase development beyond the level assumed for the site in the City's General Plan EIR. Because the 2015 UWMP (adopted in June 2016) analyzed the Fresno General Plan land use capacity, the water demand resulting from the existing project site would not

be greater than anticipated in the UWMP. It should be noted that an updated UWMP is anticipated in mid- to late-2021.

The mitigation measures of the MEIR are incorporated herein by reference and are required to be implemented by the attached mitigation monitoring checklist. In summary, these mitigation measures equate to City of Fresno policies and initiatives aimed toward ensuring that the City has a reliable, long-range source of water through the implementation of measures to promote water conservation through standards, incentives and capital investments.

The Department of Public Utilities works with Fresno Metropolitan Flood Control District to utilize suitable FMFCD ponding (drainage) basins for the groundwater recharge program, and works with Fresno Irrigation District to ensure that the City's allotment of surface water is beneficially used for intentional groundwater recharge.

Private development participates in the City's ability to meet water supply goals and initiatives through payment of fees established by the city for construction of recharge facilities, the construction of recharge facilities directly by the project, or participation in augmentation/enhancement/enlargement of the recharge capability of Fresno Metropolitan Flood Control District storm water ponding basins. While the proposed project may be served by conventional groundwater pumping and distribution systems, treated surface water supplies are also anticipated to serve the project, which would limit drawdown of groundwater aquifers, to protect groundwater aquifer recharge capabilities.

Implementation of the Fresno General Plan policies, the Kings Basin Integrated Regional Water Management Plan, City of Fresno Urban Water Management Plan, Fresno-Area Regional Groundwater Management Plan, and City of Fresno Metropolitan Water Resource Management Plan and the applicable mitigation measures of previously approved environmental review documents, as well as those mitigation measures included herein, will address the issues of providing an adequate, reliable, and sustainable water supply for the project's urban domestic and public safety consumptive purposes.

The proposed project would not result in new impervious surfaces and, as such, would not reduce rainwater infiltration and groundwater recharge. The proposed project would have negligible effects to the overall infiltration capacity of the area because the proposed disturbance area is currently paved. Due to the project's small size, nature and scope, is would not cause the substantial depletion of groundwater supplies or interfere substantially with groundwater recharge.

Therefore, this impact would be **less than significant**.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:

i. Result in substantial erosion or siltation on- or off-site?

ii. Substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

iii. Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

The project site is mostly flat. Although new impervious surface would be added throughout portions of the project site, the project would not substantially alter the existing drainage pattern of the site or area. The project site does not have a stream or river. The project would not result in substantial erosion or siltation on- or off-site, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site. The storm drainage plan will be supported by engineering calculations to ensure that the project does not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

The developer will be required to provide improvements which will convey surface drainage to Master Plan inlets and which will provide a path for major storm conveyance. When development permits are issued, the subject site will be required to pay drainage fees pursuant to the Drainage Fee Ordinance.

Portions of the subject property may be adequately served with permanent drainage service through existing Master Plan facilities or required Master Plan facilities to be developed in conjunction with the proposed project. However, in areas where permanent drainage service will not be available, the District recommends temporary ponding facilities until permanent service is available through future Master Plan Facilities.

The Master Plan system has been designed such that during a two-year event flow will not exceed the height of the 6-inch curb. Should wedge curb (4.5-inch height) be used the same criteria shall apply whereby flow remains below the top of curb.

If surface water runoff or event flows exceed volumes for which the Master Plan drainage system is designed to accommodate and the existing Master Plan storm drainage facilities do not have capacity to serve the proposed land use to avoid flooding, then the developer will be required to mitigate the impacts of the increased runoff from the proposed use to a rate that would be expected if developed in accordance with the Master Plan (see Mitigation Measures HYD-5.1 through HYD-

5.5). The developer may either make improvements to the existing pipeline system to provide additional capacity or may use some type of permanent peak reducing facility in order to eliminate adverse impacts on the existing system. Should the developer choose to construct a permanent peak-reducing facility, such a system would be required to reduce runoff accordingly. Implementation of the mitigation measures may be deferred until time of development.

Therefore, the project would not result in substantial erosion or siltation on- or off-site, substantially increase the rate of or amount of surface runoff that would result in flood on- or off-site, or create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

Overall, this impact would be **less than significant with mitigation incorporated**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the hydrology and water-quality related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:

v. Impede or redirect flood flows?

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

The project would not impede or redirect flood flows. The project site is not in a location that is prone to flood hazard, tsunami, or seiche zones, and is not at risk of release of pollutants due to project inundation. Therefore, this impact would be **less than significant**.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

The Water Quality Control Plan for the Central Valley Region and the Groundwater Sustainability Plan are the two guiding documents for water quality and sustainable groundwater management in the project area. Consistency with the two plans is discussed below.

Water Quality Control Plan for the Central Valley Region

The Water Quality Control Plan for the Central Valley Region (Basin Plan) includes a summary of beneficial water uses, water quality objectives needed to protect the identified beneficial uses, and implementation measures. The Basin Plan establishes water quality standards for all the ground and surface waters of the region. The RWQCB regulates waste discharges to minimize and control their effects on the quality of the region's ground and surface water. Permits are issued under a number of programs and authorities. The terms and conditions of these discharge permits are enforced through a variety of technical, administrative, and legal means. Water quality problems in the region are listed in the Basin Plan, along with the causes, where known.

As discussed above, impacts related to water quality during construction and operation of the proposed project would be less than significant. Through compliance with the FMFCD's Storm Water Quality Management Plan, City General Plan policies, and City Municipal Code requirements, the proposed project would have a **less than significant** impact.

Groundwater Sustainability Plan

As part of a partnership of local municipal water purveyors, irrigation districts, a flood control district, and the overlying county, the Fresno Area Regional Groundwater Management Plan was prepared in conformance with AB 3030 and SB 1938. The objectives of the Fresno Area Regional Groundwater Management Plan have been developed to monitor, protect, and sustain groundwater within the region. The City of Fresno and the other participating agencies subsequently adopted the groundwater management plan in 2006. The City of Fresno falls within the North Kings Groundwater Sustainability Agency (NKGSA). As a high priority basin, the Kings Subbasin must be managed under a Groundwater Sustainability Plan by January 31, 2020. The NKGSA completed the Groundwater Sustainability Plan on January 28, 2020. It should be noted that, as previously described, FMC Section 6-536 provides that the City Council may impose conditions of approval deemed necessary by the Public Works Director or the Fire Chief which will ensure that an adequate supply of water is available at the time of occupancy of new development.

As discussed above, project implementation would not decrease groundwater supplies or interfere substantially with groundwater recharge. The proposed project water demand is not expected to exceed the City's supplies in any normal, single dry, or multiple dry year, and the project would not conflict with the Fresno Area Regional Groundwater Management Plan. This impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the hydrology and water quality related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?			X	
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			X	

DISCUSSION

a) Physically divide an established community?

The project site is located within the Fresno city limits and is adjacent primarily to existing residential uses and land previously used for agricultural purposes. The proposed park and soccer complex is consistent with the surrounding uses and would not physically divide an established community. Implementation of the proposed project would have a **less than significant** impact relative to this topic.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

The project would require approval of a Development Permit. The proposed project site is designated and zoned for park uses. Upon approval, the proposed project would not conflict with any land use plan, policy or regulation. The project would not require a rezone or General Plan amendment. The Community Park (CP) land use designation accommodates park and soccer complex uses such as those proposed by the project.

Fresno General Plan Goals, Objectives and Policies

As proposed, the project will be consistent with the following Fresno General Plan goals:

- Increase opportunity, economic development, business, and job creation.
- Make full use of existing infrastructure, and investment in improvements to increase competitiveness and promote economic growth.
- Promote orderly land use development in pace with public facilities and services needed to serve development.
- Provide for a diversity of districts, neighborhoods, housing types (including affordable housing), residential densities, job opportunities, recreation, open space, and educational venues that appeal to a broad range of people throughout the City.

These Goals contribute to the establishment of a comprehensive city-wide land use planning strategy to meet economic development objectives, achieve efficient and equitable use of resources and infrastructure, and create an attractive living environment in accordance with Objective LU-1 of the Fresno General Plan.

Policy UF-1-a promotes new development within the existing City limits. The project site is within the existing City limits. The park and soccer complex would be developed throughout the project site.

This project supports the above-mentioned goals and policies in that the intensity of the proposed development conforms to the applicable land use designation of the Fresno General Plan.

The project will not conflict with any conservation plans since it is not located within any conservation plan areas. No habitat conservation plans or natural community conservation plans in the region pertain to the natural resources that exist on the subject site or in its immediate vicinity. Therefore, this impact would be **less than significant**.

In conclusion, the proposed project would not result in any land use and planning environmental impacts beyond those analyzed in MEIR SCH No. 2012111015.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?			X	
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?			X	

DISCUSSION

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

The subject site is not located in an area designated for mineral resource preservation or recovery; therefore, the project will not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. Impacts would be **less than significant**.

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

The subject site is not delineated on a local general plan, specific plan or other land use plan as a locally-important mineral resource recovery site; therefore, it will not result in the loss of availability of a locally-important mineral resource. Impacts would be **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) 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?		X		
b) Generation of excessive groundborne vibration or groundborne noise levels?		X		
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?			X	

DISCUSSION

a) 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 in other applicable local, state, or federal standards?

b) Generation of excessive groundborne vibration or groundborne noise levels?

Generally, the three primary sources of substantial noise that affect the City of Fresno and its residents are transportation-related and consist of major streets and regional highways; airport operations at the Fresno Yosemite International, the Fresno-Chandler Downtown, and the Sierra Sky Park Airports; and railroad operations along the BNSF Railway and the Union Pacific Railroad lines.

In developed areas of the community, noise conflicts often occur when a noise

sensitive land use is located adjacent or in proximity to a noise generator. Noise in these situations frequently stems from on-site operations, use of outdoor equipment, uses where large numbers of persons assemble, and vehicular traffic. Some land uses, such as residential dwellings hospitals, office buildings and schools, are considered noise sensitive receptors and involve land uses associated with indoor and/or outdoor activities that may be subject to stress and/or significant interference from noise.

Stationary noise sources can also have an effect on the population, and unlike mobile, transportation-related noise sources, these sources generally have a more permanent and consistent impact on people. These stationary noise sources involve a wide spectrum of uses and activities, including various industrial uses, commercial operations, agricultural production, school playgrounds, high school football games, HVAC units, generators, lawn maintenance equipment and swimming pool pumps.

Potential noise sources at the project site during project operation would occur primarily from nearby roadway traffic, as well as from on-site recreational activities, while noise during construction activities would occur due to construction-related roadway traffic as well as on-site off-road construction activities.

The City of Fresno Noise Element of the Fresno General Plan establishes a land use compatibility criterion of 60dB DNL for exterior noise levels in outdoor areas of noise-sensitive land uses from 7am to 7pm. Additionally, the Fresno General Plan establishes a criterion of 55 dB DNL for exterior noise levels in outdoor areas of noise-sensitive land uses from 7pm to 10pm. The intent of the exterior noise level requirement is to provide an acceptable noise environment for outdoor activities and recreation. However, the project doesn't propose sensitive land uses. Furthermore, the Noise Element also requires that interior noise levels attributable to exterior noise sources not exceed 45 dB DNL. The intent of the interior noise level standard is to provide an acceptable noise environment for indoor communication and sleep.

There are existing sensitive receptors (i.e., residential receptors) that surround the project site to the north, east, west, and south. A Noise Impact Study for the proposed project was prepared by MD Acoustics on January 14, 2021. The existing noise environment due to traffic noise was calculated using the ADT levels provided by Kittelson & Associates, Inc. and the FHWA traffic noise model. Additional on-site noise sources were also modeled. The existing level is 54.2 dBA Leq for daytime and 55.4 dBA CNEL. The expected ambient noise level without the project in 2035 is expected to be 56.4 dBA Leq for daytime and 57.6 dBA CNEL.

The increase in traffic noise to surrounding sites as a result of the project is 0.7 dBA. It takes a change of 3 dBA or more to hear a perceptible difference.

The worst-case stationary noise was modeled using SoundPLAN 3D acoustical modeling software. This worst-case scenario models all operational noise operating

at the same time for the full duration of an hour. The model utilizes the sound level data for the project events, which includes parking, sports, and recreational activities. These activities together constitute the project's daytime levels. There is an existing wall on the southern half of the houses to the east of the project site, which was modeled at 6 feet tall.

MD Acoustics found that the combined noise levels during project operation do not exceed the City's noise limit given in the daytime and evening ambient definitions and by Section 10-106 of the Municipal Code of +5 the ambient level. Therefore, the project's impact is less than significant during project operation.

Short-term Noise Impacts

The construction of a project involves short-term construction related noise. The Fresno Municipal Code (FMC) allows for construction noise in excess of standards if it complies with the section below (Chapter 10, Article 1, Section 10-109 – Exemptions). It states that the provisions of Article 1 – Noise Regulations of the FMC shall not apply to:

> Construction, repair or remodeling work accomplished pursuant to a building, electrical, plumbing, mechanical, or other construction permit issued by the city or other governmental agency, or to site preparation and grading, provided such work takes place between the hours of 7:00 a.m. and 10:00 p.m. on any day except Sunday.

Thus, construction activity would be exempt from City of Fresno noise regulations, as long as such activity is conducted pursuant to an applicable construction permit and occurs between 7:00 a.m. and 10:00 p.m., excluding Sunday. Nevertheless, the further ensure that construction activities do not disrupt the adjacent land uses, the Noise Impact Study identified that the following additional actions should be taken during project construction (as provided within Mitigation Measure NOISE-1):

- During construction, all construction equipment shall be equipped with appropriate noise attenuating devices;
- Equipment shall be located in staging areas that will create the greatest distance between construction-related noise sources and sensitive receptors nearest the project site during all project construction;
- Idling equipment shall be turned off when not in use;
- Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

With implementation of the above actions (as part of Mitigation Measure NOISE-1), short-term construction impacts associated with the exposure of persons to or the generation of noise levels in excess of standards established in the general plan or noise ordinance or applicable standards of other agencies would be less than

significant.

Long Term Noise Impacts

The proposed project includes development of a park and soccer complex on a site that currently contains scattered agricultural uses. The immediate vicinity consists of existing and planned residential uses. Although the project will create additional activity in the area, the project will be required to comply with all noise policies from the Fresno General Plan and noise ordinance from the FMC. No project-specific mitigation for noise during project operation is required.

Conclusion

Although the project will create additional activity in the area, the project will be required to comply with the project-specific Mitigation Measure NOISE-1, as well as the noise ordinance of the Fresno Municipal Code. Through implementation of this measure, and compliance with the Fresno Municipal Code, the project would neither generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of relevant standards, nor generate excessive groundborne vibration or groundborne noise levels. Therefore, this impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate the noise related mitigation measure as identified in the attached Project Specific Mitigation Monitoring Checklist dated April 6, 2021.

c) For a project located within 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?

The project area is not located in an FAA-designated Runway Protection Zone, Inner Safety Zone and Sideline Safety Zone according to review of the Downtown Fresno Chandler Airport and Yosemite International Airport Existing Safety Zones Maps. This impact would be **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			X	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X

DISCUSSION

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

The proposed project will not induce substantial population growth in this area. The surrounding area is mostly developed or will be developed with residential uses. The project site has been planned by the Fresno General Plan for Community Park (CP) uses, which is consistent with the intended use of the project site by the proposed project. The intensity of the proposed project was included in the Fresno General Plan. The impact would be less than significant given that development is occurring at a scale and scope designated by the Fresno General Plan. Impacts would be **less than significant**.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

The proposed project will not displace any existing housing. The project will not result in displacement of any persons as there is no residential development on the subject property. Therefore, **no impact** would occur.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES – Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?			X	
Police protection?			X	
Schools?			X	
Parks?			X	
Other public facilities?			X	

DISCUSSION

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

i. Fire protection?

The subject property is located approximately 0.94 air miles (or 1.55 road miles) southeast from Fire Station 15.

The City of Fresno Fire Department operates its facilities under the guidance set by the National Fire Protection Association in NFPA 1710, the Standard for the Organization and Deployment of Fire Suppression Operations, Emergency

Medical Operations, and Special Operation to the Public by Career Fire Departments. NFPA 1710 sets standards for turnout time, travel time, and total response time for fire and emergency medical incidents, as well as other standards for operation and fire service. The Fire Department has established the objectives set forth in NFPA 1710 as department objectives to ensure the public health, safety, and welfare.

Demand for fire service generated by the project is within planned services levels of the Fire Department and the applicant will pay any required impact fees at the time building permits are obtained.

According to the Fresno General Plan MEIR, development impact fees are currently collected for the provision of capital facilities for fire facilities that will provide for future facilities as the City's population increases. Recognizing that there would be an increased demand for fire and emergency medical response, the General Plan Update includes several policies to support the activities of the Fresno Fire Department. The policies and objectives from the General Plan will ensure that the proposed project does not significantly affect fire protection.

Project review for compliance with fire and life safety requirements for the proposed storage addition and relocated charging facilities and the intended use are reviewed by both the Fire Department and the Building and Safety Services Section of the Planning and Development Department when a submittal for building plan review is made as required by the California Building Code. This impact would be **less than significant**.

ii. Police protection?

City police protection services are available to serve the proposed project with no new facilities required for police protection. Demand for police protection service generated by the project is within planned services levels of the Police Department and the applicant will pay any required impact fees at the time building permits are obtained. This impact would be **less than significant**.

iii. Schools?

The proposed project would not impact the District's student classroom capacity. The developer will pay appropriate school fees at time of building permits. This impact would be **less than significant**.

iv. Parks?

The proposed project is a park project, providing additional park capacity for residents of the City of Fresno and the surrounding region. Demand for parks generated by the project is within planned services levels of the City of Fresno

Parks and Community Services Department and the applicant will pay any required impact fees at the time building permits are obtained. This impact would be **less than significant**.

v. Other public facilities?

The proposed project does not include uses that would increase the use of other public facilities in the area, such as library or other civic services. The proposed project will not induce substantial population growth in this area. This impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the public service related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION - Would the project:				
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			X	
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?			X	

DISCUSSION

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

The proposed project is a park facility, adding existing park capacity to the City of Fresno and surrounding region. Therefore, the proposed project would reduce the potential physical deterioration of existing recreation facilities in the nearby region. Development of the project would not cause an adverse physical effect on the environment not already disclosed elsewhere throughout this document.

The applicant will pay any required impact fees at the time building permits are obtained or receive credits for construction as may be memorialized within a development agreement. Therefore, the project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated, or include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment. This impact would be **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION – Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			X	
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?			X	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	
d) Result in inadequate emergency access?			X	

DISCUSSION

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

The proposed project includes the development of a park and soccer complex. A Transportation Impact Study (TIS) was developed by Kittelson & Associates in January 2021. The TIS identified describes that, as a recreational facility, development of the project would result in a net decrease on vehicle miles travelled (VMT), since it would redirect existing traffic that would otherwise travel farther distances to alternative existing recreational facilities. Overall, the TIS identified that the project would not generate net new trips, but instead would redistribute existing trips. The Project complies with policies outlined in the General Plan and Active Transportation Plan, including by reducing VMT through infill development (General Plan Policy MT-2-c), and by ensuring pedestrian safety (General Plan Policy MT-5-d; ATP Goal 1).

Additionally, the TIS identified that the project is not anticipated to decrease the performance of transit buses or safety of transit facilities. Transit service is not expected to be impacted since the project would not cause transit demand to exceed capacity and traffic operations at study intersections used by transit vehicles would not be significantly impacted.

Proposed roadway, bicycle, and pedestrian plans will not be impacted by the new development, and adequate right-of-way will be provided to complete potential roadway widening and new bicycle and pedestrian facilities. Class II bike lanes are currently present intermittently along Peach Avenue, with the exception of the corridor immediately adjacent to the Project. The City of Fresno's Active Transportation Plan includes a planned Class II bikeway along Peach Avenue from North Avenue to Kings Canyon Road. The project is not expected to impact the City's plan to install bicycle facilities along this corridor because the project is not proposing off-site improvements.

The Project site is required to provide adequate access and amenities for bicyclists, including bicycle parking. The Fresno municipal code (Section 15-2429) states the required number of short and long-term bicycle parking spaces for various land uses. Parks and Open Space classifications are not required to provide long-term spaces (for visitors staying longer than two hours) but are required to provide short-term spaces to be determined during project review. The City of Fresno will determine requirements for bicycle amenities and bicycle parking, during the final review of the site plan and development of the conditions of approval.

Therefore, impacts are considered **less than significant** relative to this topic.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Vehicle Miles Traveled:

Senate Bill (SB) 743 requires that relevant CEQA analysis of transportation impacts be conducted using a metric known as vehicle miles traveled (VMT) instead of Level of Service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the project adds excessive car travel onto our roads, the project may cause a significant transportation impact.

The State CEQA Guidelines were amended to implement SB 743, by adding Section 15064.3. Among its provisions, Section 15064.3 confirms that, except with respect to transportation projects, a project's effect on automobile delay shall not constitute a significant environmental impact. Therefore, LOS measures of impacts on traffic facilities is no longer a relevant CEQA criteria for transportation impacts.

CEQA Guidelines Section 15064.3(b)(4) states that "[a] lead agency has discretion to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled, and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate used to estimate vehicle miles traveled and any revision to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section."

On June 25, 2020, the City of Fresno adopted CEQA Guidelines for Vehicle Miles Traveled Thresholds, dated June 25, 2020, pursuant to Senate Bill 743 to be effective of July 1, 2020. The thresholds described therein are referred to herein as the City of Fresno VMT Thresholds. The City of Fresno VMT Thresholds document was prepared and adopted consistent with the requirements of CEQA Guidelines Sections 15064.3 and 15064.7. The December 2018 Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory) published by the Governor's Office of Planning and Research (OPR), was utilized as a reference and guidance document in the preparation of the Fresno VMT Thresholds.

The City of Fresno VMT Thresholds adopted a screening standard and criteria that can be used to screen out qualified projects that meet the adopted criteria from needing to prepare a detailed VMT analysis. The project does not meet any of the adopted screening criteria as identified in the City of Fresno VMT Thresholds. For example, since the project would generate approximately 872 ADT (as identified in the TIS), the project would not meet the screening criteria of generating 500 average daily vehicles (ADT) or less. The remaining other adopted screening criteria do not apply to a regional park project.

For projects that are not screened out, a quantitative analysis of VMT impacts must be prepared and compared against VMT thresholds of significance, as determined by the City. The Fresno VMT Thresholds document includes thresholds of significance for

development projects, transportation projects, and land use plans. These thresholds of significance were developed using the County of Fresno as the applicable region, and the required reduction of VMT (as adopted in the Fresno VMT Thresholds) corresponds to Fresno County's contribution to the statewide GHG emission reduction target. In order to reach the statewide GHG reduction target of 15%, Fresno County must reduce its GHG emissions by 13%. The City of Fresno VMT Thresholds describes that, in general, the method of reducing GHG by 13% is to reduce VMT by 13% as well.

However, although the adopted threshold of reducing VMT by 13% applies to residential, office, and retail uses, the proposed project is a regional park and soccer complex project. The City of Fresno VMT Thresholds document identifies that the City may develop thresholds for other land uses that are not residential, office, and retail uses. Specifically, with regard to the lead agency developing an alternative VMT threshold for other land use project types, page 25 of the City of Fresno VMT Thresholds document identifies that:

> "*One approach is to review the City's General Plan and/or the Fresno COG RTP/SCS and identify whether the implementation of the plan would result in a reduction of VMT and GHGs. If it does, the City may conclude the implementation of the plan, including all the other land use types will achieve the regional climate change goals. Therefore, consistency with the plan and no net change in VMT…for the other land use types is a rational threshold."*

The project does not include either a General Plan Amendment or a zoning change. Additionally, the project is consistent with what was analyzed in the most recent RTP/SCS (i.e Fresno COG's 2018 RTP/SCS), since the RTP/SCS relied on data from the existing City of Fresno General Plan to develop its modeling.

The RTP/SCS PEIR identifies that:

> "*Compared to 2005 levels, the 2018 RTP/SCS will result in a 5 percent reduction in greenhouse gas emissions per capita by 2020 and a 10 percent reduction by 2035; thereby meeting SB 375 emission reduction targets."*

Additionally, the RTP/SCS PEIR identifies that future GHG emissions per capita and VMT per capita in the region would decrease by 10% and 7% by 2035, respectively, compared with 2005 levels. Further, overall, the 2018 RTP/SCS PEIR identifies that the 2018 RTP/SCS would meet CARB per capita emission targets set pursuant to the Updated SB 375 reduction targets by achieving the 11% (2020) and 17% (2035) per capita reductions. Therefore, since the project is consistent with the City of Fresno General Plan and the Fresno COG RTP/SCS, and the Fresno COG RTP/SCS PEIR identifies that implementation of the plan would achieve the regional climate change goals, it is reasonable for the lead agency to utilize a 'no net increase to VMT' approach as the applicable VMT threshold for determining whether this project would generate a significant VMT impact.

Therefore, the City of Fresno has determined that the appropriate VMT threshold for this project (i.e. a regional parks project) is 'no net increase in VMT', consistent with the methodology undertaken with the project TIS developed by Kittelson & Associates.

As described in the TIS, since the Project includes both a regional park and a soccer complex, VMT was analyzed for two separate trip types – vehicles traveling to the nearest regional park and vehicles traveling to the nearest park with soccer facilities. The redistribution of recreational trips was analyzed by calculating changes in average trip length to (1) the nearest regional park and (2) the nearest park with a soccer field.

The addition of a new regional park and soccer complex at the project site would result in a decrease in VMT for both the regional park and the soccer complex. Table 5 shows how the average trip length for a regional park trip or a soccer field trip would change with the project. Since the project is assumed not to generate net new trips, but instead would redistribute existing trips, a decrease in the average trip length would also result in a decrease in VMT.

The reduction in VMT resulting from trips to the nearest park with a football or soccer field is much smaller than that for regional parks. Because there is a much higher number of existing parks with football or soccer fields (34), the addition of the new park would have a smaller effect on trip re-routing and distance.

Table 5: Changes to VMT

Park Category/Scenario	***Average Trip Distance (Miles)***
Regional Parks	
Existing	5.00
Existing + New Park	3.90
Difference	**-1.11**
Parks with Soccer or Football Fields	
Existing	1.54
Existing + New Park	1.53
Difference	**-0.01**

SOURCE: Southeast Fresno Regional Park, Transportation Impact Study (February 2021)

As shown in Table 5, the project would reduce VMT compared to the existing scenario, for both park categories/scenarios modelled.

Overall, based on the City of Fresno's VMT Thresholds, the Project would be assumed to have a significant impact related to VMT if it would cause a net increase in regional VMT. The total number of recreational park trips in Fresno is not anticipated to increase; instead, recreational trips would be diverted from other parks, on average. The average trip lengths between residential areas in Fresno and regional park and soccer field destinations were computed by Kittelson & Associates in the TIS with and without the project. Based on this analysis, the average trip lengths were found to decrease as a

result of the project. Since average trip length would decrease and there would be no net new vehicle trips as a result of the project, there would be no significant impact as the total regional VMT would decrease as a result of the project. Therefore, consistent with the “no net increase in VMT” threshold for this project, this impact would be **less than significant**.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The project does not propose modifications to an existing land use or zoning designation, and therefore does not represent an incompatible use. The project does not propose any off-site improvements to the local transportation network that would result in sharp curves, dangerous intersections, or other hazards.

The design of the proposed internal drive aisles, access driveways, and other circulation improvements would be required to adhere to the City of Fresno Fire Department’s design standards which are imposed on project developments by the State and City’s Fire Department during the building plan check and development review process.

Since the project is not incompatible with surrounding land uses, there are no off-site improvements, and all on-site improvements would be made adhering to the latest design standards for the City of Fresno preventing hazardous conditions, the project would not result in a significant impact and no mitigation measures would be required. This impact would be **less than significant**.

d) Result in inadequate emergency access?

Emergency response requires a balance of emergency response time and evacuation needs with other community concerns, such as urban design and traffic calming. To address emergency and fire access needs, the site improvements would be required to be designed in accordance with all applicable CDE and the City of Fresno Fire Department design standards for emergency access (e.g., minimum lane width and turning radius). For example, the driveways would be designed to meet the minimum width requirements of the City of Fresno Fire Department to allow for the passing of emergency vehicles.

Since adequate emergency access will be required per the local fire code and the site plans reviewed by the local fire officials as part of the design review, the project is not anticipated to result in inadequate emergency vehicle access. Therefore, the project would have a less than significant impact and no mitigation measures would be required. This impact would be **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRIBAL CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:			X	
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC section 5020.1(k), or,			X	
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC section 5024.1. In applying the criteria set forth in subdivision (c) of PRC section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.			X	

DISCUSSION

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i. **Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or**

ii. **A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the California Environmental Quality Act (CEQA) Guidelines. Pursuant to PRC Section 21080.3.1, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC Section 21074(a) (1-2)).

Additional information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC Section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC Section 21082.3(c) contains provisions specific to confidentiality.

Currently, the Table Mountain Rancheria Tribe and the Dumna Wo Wah Tribe have requested to be notified pursuant to Assembly Bill 52 (AB 52) A certified letter was mailed to the above-mentioned tribes on March 1, 2021. The 30-day comment period ended on March 31, 2021. Both tribes did not request consultation. The project site is currently developed, and the area where the proposed building addition would be constructed is currently paved. If any artifacts are inadvertently discovered during ground-disturbing activities, existing federal, State, and local laws and regulations as well as the mitigation measures of the Fresno General Plan MEIR will require construction activities to cease until such artifacts are properly examined and determined not to be of significance by a qualified cultural resource professional.

Implementation of the MEIR mitigation measures would ensure this impact is **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the cultural resource related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effect?			X	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			X	
c) Result in a determination by the waste water treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			X	
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			X	

DISCUSSION

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

The proposed project would require construction of new water infrastructure for irrigation of the planned grass soccer fields, which would connect to the existing utility infrastructure. Additionally, the project will include connections for electric power, natural gas, and telecommunications facilities. The installation of this infrastructure will not require any major upsizing or other offsite construction activities that would cause a significant impact. The new infrastructure would be connected to existing infrastructure that is currently on the project site.

Restrooms would be located on site. Therefore, use of the project site will generate wastewater containing human waste, which is required to be conveyed and treated by the Fresno-Clovis Regional Wastewater Treatment and Reclamation Facility. An onsite wastewater treatment system is not required or proposed. The proposed project would be connected to the existing sewer mains along nearby roadways, and would pay any additional required connection and sewer facility fees to provide for reimbursement of preceding investments in sewer trunks to connect this site to a publicly owned treatment works.

The General Plan MEIR concludes that impacts associated with wastewater treatment facilities and capacity resulting from buildout of the General Plan, including the proposed project site, would be less than significant with implementation of Mitigation Measures USS-1 (which requires development and implementation of a wastewater master plan update), USS-2 (which requires evaluation of the wastewater system and construction of expansions at the Regional Facility and NFWRF), and USS-3 (which requires evaluation of the wastewater system and construction of a wastewater treatment facility within the Southeast Development Area). The project site is not within the Southeast Development Area.

Impacts to storm drainage facilities have been previously discussed under the Hydrology and Water Quality section. Storm drainage facilities would be developed as required. The grading plan would be submitted to the Flood Control District for review prior to final development approval.

The proposed project would be subject to the payment of any applicable connection charges and/or fees and extension of services in a manner which is compliant with the Department of Public Utilities standards, specifications, and policies. Overall, this impact would be **less than significant**.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

The City's General Plan designates the project area as Community Park (CP). The analysis included in the City's General Plan EIR assumed that the site would be developed with park uses. The project would not increase development beyond the level assumed for the site in the City's General Plan EIR. Because the recently adopted 2015 UWMP analyzed the Fresno General Plan land use capacity, the water demand resulting from the existing project site would be less than anticipated in the UWMP. Moreover, the WSA prepared for the project identified that there is sufficient water supply to meet project water demand, under all studied conditions (West Yost, 2021).

The project includes restroom facilities as well as irrigation for the grass soccer fields. There are sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years. Overall, this impact would be **less than significant**.

c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

The project includes restroom facilities as well as irrigation for the grass soccer fields. The proposed project will not result in a determination by the wastewater treatment provider that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments. Overall, this impact would be **less than significant**.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Garbage disposed of in the City of Fresno is taken to Cedar Avenue Recycling and Transfer Station. Once trash has been off-loaded at the transfer station, it is sorted and non-recyclable solid waste is loaded onto large trucks and taken to the American Avenue Landfill (i.e., American Avenue Disposal Site, Site Solid Waste Information System [SWIS] Number 10-AA-0009) located approximately six miles southwest of Kerman.

The American Avenue Landfill has a maximum permitted capacity of 32,700,000 cubic yards and a remaining capacity of 29,358,535 cubic yards, with an estimated closure date of August 31, 2031. The maximum permitted throughput is 2,200 tons per day. Additionally, the City of Clovis Landfill (SWIS Number 10-AA-0004) has a maximum permitted capacity of 7,800,000 cubic yards and a remaining capacity of 7,740,000 cubic yards, with an estimated closure date of April 30, 2047. The maximum permitted throughput is 2,000 tons per day.

Due to the nature of the proposed project, a limited amount of solid waste would be generated by the project. The American Avenue Landfill has adequate capacity to serve the project. The project would be required to comply with applicable State and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. Overall, this impact would be **less than significant**.

Mitigation Measures

1. The proposed project shall implement and incorporate, as applicable, the utilities and service systems related mitigation measures as identified in the attached MEIR Mitigation Monitoring and Reporting Program dated April 6, 2021.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			X	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			X	
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			X	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			X	

DISCUSSION

There are no State Responsibility Areas (SRAs) within the vicinity of the project site. The project site is not categorized as a "Very High" Fire Hazard Severity Zone (FHSZ) by CalFire. Although this CEQA topic only applies to areas within an SRA or Very High FHSZ, out of an abundance of caution, these checklist questions are analyzed below.

1. **Substantially impair an adopted emergency response plan or emergency evacuation plan?**

   The project site is currently connected to an existing network of City streets. At full buildout of the project, there would be a total of six ingress/egress points. These access points would be available during an emergency. The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, this impact would be **less than**

significant.

2. **Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?**

   The risk of wildfire is related to a variety of parameters, including fuel loading (vegetation), fire weather (winds, temperatures, humidity levels and fuel moisture contents) and topography (degree of slope). Steep slopes contribute to fire hazard by intensifying the effects of wind and making fire suppression difficult. Fuels such as grass are highly flammable because they have a high surface area to mass ratio and require less heat to reach the ignition point. The project site is located in an area that is predominately urban, which is not considered at a significant risk of wildfire. Therefore, this impact would be **less than significant**.

3. **Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?**

   The project includes development of infrastructure (water) required to support the proposed building addition and charging area. The project site is surrounded by existing and future urban development. The project would not require the installation or maintenance of infrastructure that may exacerbate fire risk. Therefore, this impact would be **less than significant**.

4. **Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?**

   A grading plan would be submitted to the Flood Control District for review prior to final development approval. The grading plan would ensure proper construction of storm drainage infrastructure to control runoff and prevent flooding, erosion, and sedimentation.

   Additionally, the project site is located within FEMA Zone X (un-shaded), indicating that the site is located outside of the 100-year flood hazard zone. Further, because the site is essentially flat and located in an existing urbanized area of the City, downstream landslides would not occur.

   Landslides include rockfalls, deep slope failure, and shallow slope failure. Factors such as the geological conditions, drainage, slope, vegetation, and others directly affect the potential for landslides. One of the most common causes of landslides is construction activity that is associated with road building (i.e., cut and fill). The project site is relatively flat; therefore, the potential for a landslide in the project site is

essentially non-existent.

Overall, this impact would be **less than significant**.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?			X	
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			X	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			X	

DISCUSSION

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?

The proposed project is considered to be proposed at a size and scope which is neither a direct or indirect detriment to the quality of the environment through reductions in habitat, populations, or examples of local history (through either individual or cumulative impacts).

The proposed project does not have the potential to degrade the quality of the environment or reduce the habitat of wildlife species and will not threaten plant communities or endanger any floral or faunal species. Furthermore, the project has no potential to eliminate important examples of major periods in history. As such, this impact would be **less than significant**.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

The cumulative analysis for the project is based primarily on the Fresno General Plan and the Fresno General Plan MEIR, consistent with CEQA Guidelines Section 15130(b)(1)(B). The Fresno General Plan anticipated regional growth based on land use plans and development projects throughout the region. The CEQA Guidelines provide multiple provisions for streamlining the environmental review of subsequent projects that are 1) consistent with the development density established by existing zoning, community plan, or general plan policies for which an EIR was certified, as described by CEQA Guidelines Section 15183, or 2) later projects consistent with the program, plan, policy, or ordinance for which an EIR was prepared, as described by CEQA Guidelines Section 15152. The project is consistent with the City's General Plan and is allowed to limit this Initial Study's analysis of cumulative impacts as provided by both CEQA Guidelines Section 15183 and CEQA Guidelines Section 15152.

Because the project does not have any peculiar or unique components that would result in a contribution to cumulative impacts that would be greater than those analyzed for the project site as part of the General Plan MEIR, and because the project proposes park uses for the project site evaluated in the General Plan MEIR, the project would not result in increased impacts to the cumulative topics disclosed

in the City's General Plan MEIR. As such, this impact would be **less than significant**.

c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

As demonstrated throughout this Initial Study, the proposed park and soccer complex would not cause substantial adverse effects on human beings, either directly or indirectly. The construction phase would be mitigated sufficient such that no sensitive receptors are substantially adversely impacted; additionally, the construction effects are temporary and are not substantial. The operational phase air emissions and noise would also be mitigated such that it would not cause a substantial adverse impact on sensitive receptors. Therefore, the operational phase of the proposed project would not cause substantial adverse effects on human beings. Implementation of the proposed project would have a **less than significant** impact relative to this topic.

MEIR Mitigation Measure Monitoring Checklist for EA No. P21-00726

April 6, 2021

INCORPORATING MEASURES FROM THE MASTER ENVIRONMENTAL IMPACT REPORT (MEIR) CERTIFIED FOR THE CITY OF FRESNO GENERAL PLAN UPDATE (SCH No. 2012111015)

This mitigation measure monitoring and reporting checklist was prepared pursuant to California Environmental Quality Act (CEQA) Guidelines Section 15097 and Section 21081.6 of the Public Resources Code (PRC). It was certified as part of the Fresno City Council's approval of the MEIR for the Fresno General Plan update (Fresno City Council Resolution 2014-225, adopted December 18, 2014).

Letter designations to the right of each MEIR mitigation measure listed in this Exhibit note how the mitigation measure relates to the environmental assessment of the above-listed project, according to the key found at right and at the bottoms of the following pages:

A - Incorporated into Project
B - Mitigated
C - Mitigation in Progress
D - Responsible Agency Contacted
E - Part of City-wide Program
F - Not Applicable

The timing of implementing each mitigation measure is identified in in the checklist, as well as identifies the entity responsible for verifying that the mitigation measures applied to a project are performed. Project applicants are responsible for providing evidence that mitigation measures are implemented. As lead agency, the City of Fresno is responsible for verifying that mitigation is performed/completed.

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Aesthetics:								
AES-1. Lighting systems for street and parking areas shall include shields to direct light to the roadway surfaces and parking areas. Vertical shields on the light fixtures shall also be used to direct light away from adjacent light sensitive land uses such as residences. **Verification comments:**	Prior to issuance of building permits	Public Works Department (PW) and Development & Resource Management Dept. (DARM)	**X**				**X**	
Aesthetics *(continued)*:								

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
AES-2: Lighting systems for public facilities such as active play areas shall provide adequate illumination for the activity; however, low intensity light fixtures and shields shall be used to minimize spillover light onto adjacent properties. **Verification comments:**	Prior to issuance of building permits	DARM	**X**				**X**	
AES-3: Lighting systems for non-residential uses, not including public facilities, shall provide shields on the light fixtures and orient the lighting system away from adjacent properties. Low intensity light fixtures shall also be used if excessive spillover light onto adjacent properties will occur. **Verification comments:**	Prior to issuance of building permits	DARM						**X**
AES-4: Lighting systems for freestanding signs shall not exceed 100 foot Lamberts (FT-L) when adjacent to streets which have an average light intensity of less than 2.0 horizontal footcandles and shall not exceed 500 FT-L when adjacent to streets which have an average light intensity of 2.0 horizontal footcandles or greater. **Verification comments:**	Prior to issuance of building permits	DARM						**X**

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Aesthetics *(continued)*:								
AES-5: Materials used on building facades shall be non-reflective. **Verification comments:**	Prior to development project approval	DARM	**X**					
Air Quality:								
AIR-1: Projects that include five or more heavy-duty truck deliveries per day with sensitive receptors located within 300 feet of the truck loading area shall provide a screening analysis to determine if the project has the potential to exceed criteria pollutant concentration based standards and thresholds for NO2 and PM2.5. If projects exceed screening criteria, refined dispersion modeling and health risk assessment shall be accomplished and if needed, mitigation measures to reduce impacts shall be included in the project to reduce the impacts to the extent feasible. Mitigation measures include but are not limited to: • Locate loading docks and truck access routes as far from sensitive receptors as reasonably possible considering site design limitations to comply with other City design standards. • Post signs requiring drivers to limit idling to 5 minutes or less. **Verification comments:**	Prior to development project approval	DARM						**X**

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Air Quality *(continued)***:**								
AIR-2: Projects that result in an increased cancer risk of 10 in a million or exceed criteria pollutant ambient air quality standards shall implement site-specific measures that reduce toxic air contaminant (TAC) exposure to reduce excess cancer risk to less than 10 in a million. Possible control measures include but are not limited to: • Locate loading docks and truck access routes as far from sensitive receptors as reasonably possible considering site design limitations to comply with other City design standards. • Post signs requiring drivers to limit idling to 5 minutes or less • Construct block walls to reduce the flow of emissions toward sensitive receptors • Install a vegetative barrier downwind from the TAC source that can absorb a portion of the diesel PM emissions • For projects proposing to locate a new building containing sensitive receptors near existing sources of TAC emissions, install HEPA filters in HVAC systems to reduce TAC emission levels exceeding risk thresholds. • Install heating and cooling services at truck stops to eliminate the need for idling during overnight stops to run onboard systems. *(continued on next page)*	Prior to development project approval	DARM						**X**

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Air Quality *(continued)***:**								
AIR-2 *(continued from previous page)* • For large distribution centers where the owner controls the vehicle fleet, provide facilities to support alternative fueled trucks powered by fuels such as natural gas or bio-diesel • Utilize electric powered material handling equipment where feasible for the weight and volume of material to be moved. **Verification comments:**	*[see previous page]*	*[see previous page]*						
AIR-3: Require developers proposing projects on ARB's list of projects in its Air Quality and Land Use Handbook (Handbook) warranting special consideration to prepare a cumulative health risk assessment when sensitive receptors are located within the distance screening criteria of the facility as listed in the ARB Handbook. **Verification comments:**	Prior to development project approval	DARM					**X**	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Air Quality *(continued)***:**								
AIR-4: Require developers of projects containing sensitive receptors to provide a cumulative health risk assessment at project locations exceeding ARB Land Use Handbook distance screening criteria or newer criteria that may be developed by the San Joaquin Valley Air Pollution Control District (SJVAPCD). **Verification comments:**	Prior to development project approval	DARM						**X**
AIR-5: Require developers of projects with the potential to generate significant odor impacts as determined through review of SJVAPCD odor complaint history for similar facilities and consultation with the SJVAPCD to prepare an odor impact assessment and to implement odor control measures recommended by the SJVAPCD or the City to the extent needed to reduce the impact to less than significant. **Verification comments:**	Prior to development project approval	DARM				**X**	**X**	

A - Incorporated into Project
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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources:								
BIO-1: Construction of a proposed project should avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction, to determine if the habitat supports any special-status species. If special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible. **Verification comments:**	Prior to development project approval	DARM	**X**				**X**	
BIO-2: Direct or incidental take of any state or federally listed species should be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the California Department of Fish and Wildlife (CDFW) 2081 and U.S. Fish and Wildlife Service (USFWS) Section 7 or Section 10 permitting processes must take place prior to any action that *(continued on next page)*	Prior to development project approval	DARM	**X**				**X**	

A - Incorporated into Project
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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources *(continued)*:								
BIO-2 *(continued from previous page)* may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to a listed species will be determined on a case-by-case basis through agency consultation. **Verification comments:**	*[see previous page]*	*[see previous page]*						
BIO-3: Development within the Planning Area should avoid, where possible, special-status natural communities and vegetation communities that provide suitable habitat for special-status species. If a proposed project will result in the loss of a special-status natural community or suitable habitat for special-status species, compensatory habitat-based mitigation is required under CEQA and the California Endangered Species Act (CESA). Mitigation will consist of preserving on-site habitat, restoring similar habitat or purchasing off-site credits from an approved mitigation bank. Compensatory mitigation will be determined through consultation with the City and/or resource agencies. An appropriate mitigation strategy and ratio will be agreed upon by the developer and lead agency to reduce project impacts to special-status natural communities to a less than significant *(continued on next page)*	Prior to development project approval	DARM	**X**				**X**	

A - Incorporated into Project
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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Biological Resources *(continued)***:**

BIO-3 *(continued from previous page)***:** level. Agreed-upon mitigation ratios will depend on the quality of the habitat and presence/absence of a special-status species. The specific mitigation for project level impacts will be determined on a case-by-case basis. **Verification comments:**	*[see previous page]*	*[see previous page]*						
BIO-4: Proposed projects within the Planning Area should avoid, if possible, construction within the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA), if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey must be conducted to determine if any nesting birds or nesting activity is observed on or within 500-feet of a project site. If an active nest is observed during the survey, a biological monitor must be on site to ensure that no proposed project activities would impact the active nest. A suitable buffer will be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities *(continued on next page)*	Prior to development project approval and during construction activities	DARM	**X**				**X**	

A - Incorporated into Project
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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources *(continued)***:**								
BIO-4 *(continued from previous page)***:** may continue in the vicinity of the nest only at the discretion of the biological monitor. **Verification comments:**	*[see previous page]*	*[see previous page]*						
BIO-5: If a proposed project will result in the removal or impact to any riparian habitat and/or a special-status natural community with potential to occur in the Planning Area, compensatory habitat-based mitigation shall be required to reduce project impacts. Compensatory mitigation must involve the preservation or restoration or the purchase of off-site mitigation credits for impacts to riparian habitat and/or a special-status natural community. Mitigation must be conducted in-kind or within an approved mitigation bank in the region. The specific mitigation ratio for habitat-based mitigation will be determined through consultation with the appropriate agency (*i.e*., CDFW or USFWS) on a case-by-case basis. **Verification comments:**	Prior to development project approval	DARM						**X**

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources *(continued)*:								
BIO-6: Project impacts that occur to riparian habitat may also result in significant impacts to streambeds or waterways protected under Section 1600 of Fish and Wildlife Code and Section 404 of the CWA. CDFW and/or USACE consultation, determination of mitigation strategy, and regulatory permitting to reduce impacts, as required for projects that remove riparian habitat and/or alter a streambed or waterway, shall be implemented. **Verification comments:**	Prior to development project approval	DARM						X
BIO-7: Project-related impacts to riparian habitat or a special-status natural community may result in direct or incidental impacts to special-status species associated with riparian or wetland habitats. Project impacts to special-status species associated with riparian habitat shall be mitigated through agency consultation, development of a mitigation strategy, and/or issuing incidental take permits for the specific special-status species, as determined by the CDFW and/or USFWS. **Verification comments:**	Prior to development project approval	DARM						X

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources *(continued)*:								
BIO-8: If a proposed project will result in the significant alteration or fill of a federally protected wetland, a formal wetland delineation conducted according to U.S. Army Corps of Engineers (USACE) accepted methodology is required for each project to determine the extent of wetlands on a project site. The delineation shall be used to determine if federal permitting and mitigation strategy are required to reduce project impacts. Acquisition of permits from USACE for the fill of wetlands and USACE approval of a wetland mitigation plan would ensure a "no net loss" of wetland habitat within the Planning Area. Appropriate wetland mitigation/creation shall be implemented in a ratio according to the size of the impacted wetland. **Verification comments:**	Prior to development project approval	DARM						**X**
BIO-9: In addition to regulatory agency permitting, Best Management Practices (BMPs) identified from a list provided by the USACE shall be incorporated into the design and construction phase of the project to ensure that no pollutants or siltation drain into a federally protected wetland. Project design features such as fencing, appropriate drainage and *(continued on next page)*	Prior to development project approval; but for long-term operational BMPs, prior to issuance of occupancy	DARM	**X**			**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Biological Resources *(continued)***:**								
BIO-9 *(continued from previous page)***:** incorporating detention basins shall assist in ensuring project-related impacts to wetland habitat are minimized to the greatest extent feasible. **Verification comments:**	*[see previous page]*	*[see previous page]*						
Cultural Resources:								
CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance. If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and *(continued on next page)*	Prior to commencement of, and during, construction activities	DARM	**X**				**X**	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Cultural Resources *(continued)*:								
CUL-1 *(continued from previous page)* recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-germ preservation to allow future scientific study. **Verification comments:**	*[see previous page]*	*[see previous page]*						
CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed. If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric *(continued on next page)*	Prior to commencement of, and during, construction activities	DARM	**X**					

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Cultural Resources *(continued)*:								
CUL-2 *(continued from previous page)* archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with CEQA Guidelines Section 15064.5. If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any prehistoric archaeological artifacts recovered as a result of mitigation shall be provided *(continued on next page)*	*[see previous page]*	*[see previous page]*						

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Cultural Resources *(continued)***:**

CUL-2 *(further continued from previous two pages)* to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study. If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified archaeologist. If additional prehistoric archaeological resources are found during *(continued on next page)*	*[see Page 14]*	*[see Page 14]*	

Cultural Resources *(continued)*:

A - Incorporated into Project
B - Mitigated
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
CUL-2 *(further continued from previous three pages)* excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed. **Verification comments:**	*[see Page 14]*	*[see Page 14]*						
CUL-3: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for unique paleontological/geological resources shall be conducted. The following procedures shall be followed: If unique paleontological/geological resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that unique paleontological/geological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified paleontologist shall be consulted to determine whether the resource requires further study. The qualified paleontologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered *(continued on next page)*	Prior to commencement of, and during, construction activities	DARM	**X**					

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
CUL-3 *(continued from previous page)* resources, including but not limited to, excavation of the finds and evaluation of the finds. If the resources are determined to be significant, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any paleontological/geological resources recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study. If unique paleontological/geological resources are found during the field survey or literature review, the resources shall be inventoried and evaluated for significance. If the resources are found to be significant, mitigation measures shall be identified by the qualified paleontologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the *(continued on next page)*	*[see previous page]*	*[see previous page]*						

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Cultural Resources *(continued)***:**

CUL-3 *(further continued from previous two pages)* resources found during the field survey or literature review shall include a paleontological monitor. The monitoring period shall be determined by the qualified paleontologist. If additional paleontological/geological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed. **Verification comments:**	*[see Page 17]*	*[see Page 17]*						
CUL-4: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most *(continued on next page)*	Prior to commencement of, and during, construction activities	DARM	**X**				**X**	

A - Incorporated into Project
B - Mitigated
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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Cultural Resources *(continued)***:**

CUL-4 *(continued from previous page)* likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment. **Verification comments:**	*[see previous page]*	*[see previous page]*	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hazards and Hazardous Materials								
HAZ-1: Re-designate the existing vacant land proposed for low density residential located northwest of the intersection of East Garland Avenue and North Dearing Avenue and located within Fresno Yosemite International Airport Zone 1-RPZ, to Open Space. **Verification comments:**	Prior to development approvals	DARM						**X**
HAZ-2: Limit the proposed low density residential (1 to 3 dwelling units per acre) located northwest of the airport, and located within Fresno Yosemite International Airport Zone 3-Inner Turning Area, to 2 dwelling units per acre or less. **Verification comments:**	Prior to development approvals	DARM						**X**
HAZ-3: Re-designate the current area within Fresno Yosemite International Airport Zone 5-Sideline located northeast of the airport to Public Facilities-Airport or Open Space. **Verification comments:**	Prior to development approvals	DARM						**X**

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hazards and Hazardous Materials *(continued)*:								
HAZ-4: Re-designate the current vacant lots at the northeast corner of Kearney Boulevard and South Thorne Avenue to Public Facilities-Airport or Open Space. **Verification comments:**	Prior to development approvals	DARM						**X**
HAZ-5: Prohibit residential uses within Safety Zone 1 northwest of the Hawes Avenue and South Thorne Avenue intersection. **Verification comments:**	Prior to development approvals	DARM						**X**
HAZ-6: Establish an alternative Emergency Operations Center in the event the current Emergency Operations Center is under redevelopment or blocked. **Verification comments:**	Prior to redevelopment of the current Emergency Operations Center	Fresno Fire Department and Mayor/ City Manager's Office						**X**

A - Incorporated into Project
B - Mitigated
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D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hydrology and Water Quality								
HYD-1: The City shall develop and implement water conservation measures to reduce the per capita water use to 215 gallons per capita per day. **Verification comments:**	Prior to water demand exceeding water supply	Department of Public Utilities (DPU)					**X**	
HYD-2: The City shall continue to be an active participant in the Kings Water Authority and the implementation of the Kings Basin IRWMP. **Verification comments:**	Ongoing	DPU					**X**	
HYD-5.1: The City and partnering agencies shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan collection systems to less than significant. • Implement the existing Storm Drainage Master Plan (SDMP) for collection systems in drainage areas where the amount of imperviousness is unaffected by the change in land uses. *(continued on next page)*	Prior to exceedance of capacity of existing stormwater drainage facilities	Fresno Metropolitan Flood Control District (FMFCD), DARM, and PW	**X**			**X**	**X**	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Hydrology and Water Quality *(continued)***:**

HYD-5.1 *(continued from previous page)* • Update the SDMP in those drainage areas where the amount of imperviousness increased due to the change in land uses to determine the changes in the collection systems that would need to occur to provide adequate capacity for the stormwater runoff from the increased imperviousness. • Implement the updated SDMP to provide stormwater collection systems that have sufficient capacity to convey the peak runoff rates from the areas of increased imperviousness. Require developments that increase site imperviousness to install, operate, and maintain FMFCD approved on-site detention systems to reduce the peak runoff rates resulting from the increased imperviousness to the peak runoff rates that will not exceed the capacity of the existing stormwater collection systems. **Verification comments:**	*[see previous page]*	*[see previous page]*	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hydrology and Water Quality *(continued)***:**								
HYD-5.2: The City and partnering agencies shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan retention basins to less than significant: Consult the SDMP to analyze the impacts to existing and planned retention basins to determine remedial measures required to reduce the impact on retention basin capacity to less than significant. Remedial measures would include: • Increase the size of the retention basin through the purchase of more land or deepening the basin or a combination for planned retention basins. • Increase the size of the emergency relief pump capacity required to pump excess runoff volume out of the basin and into adjacent canal that convey the stormwater to a disposal facility for existing retention basins. • Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce runoff volume to the runoff volume that will not exceed the capacity of the existing retention basins. **Verification comments:**	Prior to exceedance of capacity of existing retention basin facilities	FMFCD, DARM, and PW				**X**	**X**	

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D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hydrology and Water Quality *(continued)*:								
HYD-5.3: The City and partnering agencies shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan urban detention (stormwater quality) basins to less than significant. Consult the SDMP to determine the impacts to the urban detention basin weir overflow rates and determine remedial measures required to reduce the impact on the detention basin capacity to less than significant. Remedial measures would include: • Modify overflow weir to maintain the suspended solids removal rates adopted by the FMFCD Board of Directors. • Increase the size of the urban detention basin to increase residence time by purchasing more land. The existing detention basins are already at the adopted design depth. • Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce peak runoff rates and runoff volume to the runoff rates and volumes that will not exceed the weir overflow rates of the existing urban detention basins. **Verification comments:**	Prior to exceedance of capacity of existing urban detention basin (stormwater quality) facilities	FMFCD, DARM, and PW					**X**	

A - Incorporated into Project
B - Mitigated
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D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hydrology and Water Quality *(continued)*:								
HYD-5.4: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan pump disposal systems to less than significant. • Consult the SDMP to determine the extent and degree to which the capacity of the existing pump system will be exceeded. • Require new developments to install, operate, and maintain FMFCD design standard on-site detention facilities to reduce peak stormwater runoff rates to existing planned peak runoff rates. • Provide additional pump system capacity to maximum allowed by existing permitting to increase the capacity to match or exceed the peak runoff rates determined by the SDMP. **Verification comments:**	Prior to exceedance of capacity of existing pump disposal systems	FMFCD, DARM, and PW					X	

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B - Mitigated
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D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Hydrology and Water Quality *(continued)***:**								
• **HYD-5.5:** The City shall work with FMFCD to develop and adopt an update to the SDMP for the Southeast Development Area that would be adequately designed to collect, convey and dispose of runoff at the rates and volumes which would be generated by the planned land uses in that area. **Verification comments:**	Prior to development approvals in the Southeast Development Area	FMFCD, DARM, and PW					X	
Public Services:								
PS-1: As future fire facilities are planned, the fire department shall evaluate if specific environmental effects would occur. Typical impacts from fire facilities include noise, traffic, and lighting. Typical mitigation to reduce these impacts includes: • *Noise:* Barriers and setbacks on the fire department sites. • *Traffic:* Traffic devices for circulation and a "keep clear zone" during emergency responses. • *Lighting:* Provision of hoods and deflectors on lighting fixtures on the fire department sites. **Verification comments:**	During the planning process for future fire department facilities	DARM					X	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Public Services *(continued)*:								
PS-2: As future police facilities are planned, the police department shall evaluate if specific environmental effects would occur. Typical impacts from police facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts from police department facilities includes: • *Noise:* Barriers and setbacks on the police department sites. • *Traffic:* Traffic devices for circulation. • *Lighting:* Provision of hoods and deflectors on lighting fixtures on the police department sites. **Verification comments:**	During the planning process for future Police Department facilities	DARM					**X**	
PS-3: As future public and private school facilities are planned, school districts shall evaluate if specific environmental effects would occur with regard to public schools, and DARM shall evaluate other school facilities. Typical impacts from school facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts from school facilities includes: *(continued on next page)*	During the planning process for future school facilities	DARM, local school districts, and the Division of the State Architect					**X**	

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B - Mitigated
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Public Services *(continued)*:								
PS-3 *(continued from previous page)* • *Noise*: Barriers and setbacks placed on school sites. • *Traffic*: Traffic devices for circulation. • *Lighting*: Provision of hoods and deflectors on lighting fixtures for stadium lights. **Verification comments:**	*[see previous page]*	*[see previous page]*						
PS-4: As future parks and recreational facilities are planned, the City shall evaluate if specific environmental effects would occur. Typical impacts from school facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts from park and recreational facilities includes: • *Noise*: Barriers and setbacks placed on school sites. • *Traffic*: Traffic devices for circulation. • *Lighting*: Provision of hoods and deflectors on lighting fixtures for outdoor play area/field lights. **Verification comments:**	During the planning process for future park and recreation facilities	DARM	**X**				**X**	

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B - Mitigated
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D - Responsible Agency Contacted
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Public Services *(continued)***:**								
PS-5: As future detention, court, library, and hospital facilities are planned, the appropriate agencies shall evaluate if specific environmental effects would occur. Typical impacts from court, library, and hospital facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes: • *Noise:* Barriers and setbacks placed on school sites. • *Traffic:* Traffic devices for circulation. • *Lighting:* Provision of hoods and deflectors on outdoor lighting fixtures. **Verification comments:**	During the planning process for future detention, court, library, and hospital facilities	DARM, to the extent that agencies constructing these facilities are subject to City of Fresno regulation					**X**	
Utilities and Service Systems								
USS-1: The City shall develop and implement a wastewater master plan update. **Verification comments:**	Prior to wastewater conveyance and treatment demand exceeding capacity	DPU					**X**	

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D - Responsible Agency Contacted
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems *(continued)*:								
USS-2: Prior to exceeding existing wastewater treatment capacity, the City shall evaluate the wastewater system and shall not approve additional development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. By approximately the year 2025, the City shall construct the following improvements: • Construct an approximately 70 MGD expansion of the Regional Wastewater Treatment and Reclamation Facility and obtain revised waste discharge permits as the generation of wastewater is increased. • Construct an approximately 0.49 MGD expansion of the North Facility and obtain revised waste discharge permits as the generation of wastewater is increased. **Verification comments:**	Prior to exceeding existing wastewater treatment capacity	DPU					X	
USS-3: Prior to exceeding existing wastewater treatment capacity, the City shall evaluate the wastewater system and shall not approve additional development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. After *(continued on next page)*	Prior to exceeding existing wastewater treatment capacity	DPU						X

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B - Mitigated
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems *(continued)*:								
USS-3 *(continued from previous page)* approximately the year 2025, the City shall construct the following improvements: • Construct an approximately 24 MGD wastewater treatment facility within the Southeast Development Area and obtain revised waste discharge requirements as the generation of wastewater is increased. • Construct an approximately 9.6 MGD expansion of the Regional Wastewater Treatment and Reclamation Facility and obtain revised waste discharge permits as the generation of wastewater is increased. **Verification comments:**	*[see previous page]*	*[see previous page]*						
USS-4: A Traffic Control/Traffic Management Plan to address traffic impacts during construction of water and sewer facilities shall be prepared and implemented, subject to approval by the City (and Fresno County, when work is being done in unincorporated area roadways). The plan shall identify access and parking restrictions, pavement markings and signage, and hours of construction and for deliveries. It shall include haul routes, the notification plan, and coordination with emergency service providers and schools. **Verification comments:**	Prior to construction of water and sewer facilities	PW for work in the City; PW and Fresno County Public Works and Planning when unincorporated area roadways are involved					**X**	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems *(continued)*:								
USS-5: Prior to exceeding capacity within the existing wastewater collection system facilities, the City shall evaluate the wastewater collection system and shall not approve additional development that would generate additional wastewater and exceed the capacity of a facility until additional capacity is provided. By approximately the year 2025, the following capacity improvements shall be provided. • Orange Avenue Trunk Sewer: This facility shall be improved between Dakota and Jensen Avenues. Approximately 37,240 feet of new sewer main shall be installed and approximately 5,760 feet of existing sewer main shall be rehabilitated. The size of the new sewer main shall range from 27 inches to 42 inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are RS03A, RL02, C01-REP, C02-REP, C03-REP, C04-REP, C05-REP, C06-REL and C07-REP. • Marks Avenue Trunk Sewer: This facility shall be improved between Clinton Avenue and Kearney Boulevard. Approximately 12,150 feet of new sewer main shall be installed. The size of the new sewer main shall range from 33 inches to 60 inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CM1-REP and CM2-REP. *(continued on next page)*	Prior to exceeding capacity within the existing wastewater collection system facilities	DPU					**X**	

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems *(continued)*:								
USS-5 *(continued from previous page)* • North Avenue Trunk Sewer: This facility shall be improved between Polk and Fruit Avenues and also between Orange and Maple Avenues. Approximately 25,700 feet of new sewer main shall be installed. The size of the new sewer main shall range from 48 inches to 66 inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CN1-REL1 and CN3-REL1. • Ashlan Avenue Trunk Sewer: This facility shall be improved between Hughes and West Avenues and also between Fruit and Blackstone Avenues. Approximately 9,260 feet of new sewer main shall be installed. The size of the new sewer main shall range from 24 inches to 36 inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CA1-REL and CA2-REP. **Verification comments:**	*[see previous page]*	*[see previous page]*						

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems *(continued)*:								
USS-6: Prior to exceeding capacity within the existing 28 pipeline segments shown in Figures 1 and 2 in Appendix J-1, the City shall evaluate the wastewater collection system and shall not approve additional development that would generate additional wastewater and exceed the capacity of one of the 28 pipeline segments until additional capacity is provided. **Verification comments:**	Prior to exceeding capacity within the existing 28 pipeline segments shown in Figures 1 and 2 in Appendix J-1 of the MEIR	DPU					X	
USS-7: Prior to exceeding existing water supply capacity, the City shall evaluate the water supply system and shall not approve additional development that demand additional water until additional capacity is provided. By approximately the year 2025, the following capacity improvements shall be provided. • Construct an approximately 80 million gallon per day (MGD) surface water treatment facility near the intersection of Armstrong and Olive Avenues, in accordance with Chapter 9 and Figure 9-1 of the City of Fresno Metropolitan Water Resources Management Plan Update (2014 Metro Plan Update) Phase 2 Report, dated January 2012. *(continued on next page)*	Prior to exceeding existing water supply capacity	DPU					X	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems *(continued)***:**

USS-7 *(continued from previous page)* • Construct an approximately 30 MGD expansion of the existing northeast surface water treatment facility for a total capacity of 60 MGD, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct an approximately 20 MGD surface water treatment facility in the southwest portion of the City, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. **Verification comments:**	*[see previous page]*	*[see previous page]*						
USS-8: Prior to exceeding capacity within the existing water conveyance facilities, the City shall evaluate the water conveyance system and shall not approve additional development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be provided by approximately 2025. • Construct 65 new groundwater wells, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. *(continued on next page)*	Prior to exceeding capacity within the existing water conveyance facilities	DPU					X	

A - Incorporated into Project
B - Mitigated
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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems *(continued)*:

USS-8 *(continued from previous page)* • Construct a 2.0 million gallon potable water reservoir (Reservoir T2) near the intersection of Clovis and California Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 3.0 million gallon potable water reservoir (Reservoir T3) near the intersection of Temperance and Dakota Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 3.0 million gallon potable water reservoir (Reservoir T4) in the Downtown Planning Area, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T5) near the intersection of Ashlan and Chestnut Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T6) near the intersection of Ashlan Avenue and Highway 99, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. *(continued on next page)*	*[see previous page]*	*[see previous page]*	

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MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems *(continued)***:**

USS-8 *(continued from previous two pages)* • Construct 50.3 miles of regional water transmission mains ranging in size from 24-inch to 48-inch diameter, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct 95.9 miles of 16-inch diameter transmission grid mains, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. **Verification comments:**	*[see Page 37]*	*[see Page 37]*						
USS-9: Prior to exceeding capacity within the existing water conveyance facilities, the City shall evaluate the water conveyance system and shall not approve additional development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be provided after approximately the year 2025 and additional water conveyance facilities shall be provided prior to exceedance of capacity within the water conveyance facilities to accommodate full buildout of the General Plan Update. *(continued on next page)*	Prior to exceeding capacity within the existing water conveyance facilities	DPU					**X**	

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F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems *(continued)***:**

USS-9 *(continued from previous page)* • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 1) within the northern part of the Southeast Development Area. • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 2) within the southern part of the Southeast Development Area. Additional water conveyance facilities shall be provided prior to exceedance of capacity within the water conveyance facilities to accommodate full buildout of the General Plan Update. **Verification comments:**	*[see previous page]*	*[see previous page]*						

Utilities and Service Systems - ***Hydrology and Water Quality***

USS-10: In order to maintain Fresno Irrigation District canal operability, FMFCD shall maintain operational intermittent flows during the dry season, within defined channel capacity and downstream capture capabilities, for recharge. **Verification comments:**	During the dry season	Fresno Irrigation District (FID)						

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems - *Biological Resources:*								
USS-11: When FMFCD proposes to provide drainage service outside of urbanized areas: (a) FMFCD shall conduct preliminary investigations on undeveloped lands outside of highly urbanized areas. These investigations shall examine wetland hydrology, vegetation and soil types. These preliminary investigations shall be the basis for making a determination on whether or not more in-depth wetland studies shall be necessary. If the proposed project site does not exhibit wetland hydrology, support a prevalence of wetland vegetation and wetland soil types then no further action is required. (b) Where proposed activities could have an impact on areas verified by the Corps as jurisdictional wetlands or waters of the U.S. (urban and rural streams, seasonal wetlands, and vernal pools), FMFCD shall obtain the necessary Clean Water Act, Section 404 permits for activities where fill material shall be placed in a wetland, obstruct the flow or circulation of waters of the United States, impair or reduce the reach of such waters. As part of FMFCD's Memorandum of Understanding with CDFG, Section 404 and 401 permits would be obtained from the U.S. Army Corps of Engineers and from the *(continued on next page)*	Prior to development approvals outside of highly urbanized areas	California Regional Water Quality Control Board (RWQCB), and USACE				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)**:***

USS-11 *(continued from previous page)* Regional Water Quality Control Board for any activity involving filling of jurisdictional waters). At a minimum, to meet "no net loss policy," the permits shall require replacement of wetland habitat at a 1**:**1 ratio. (c) Where proposed activities could have an impact on areas verified by the Corps as jurisdictional wetlands or waters of the U.S. (urban and rural streams, seasonal wetlands, and vernal pools), FMFCD shall submit and implement a wetland mitigation plan based on the wetland acreage verified by the U.S. Army Corps of Engineers. The wetland mitigation plan shall be prepared by a qualified biologist or wetland scientist experienced in wetland creation, and shall include the following or equally effective elements: i. Specific location, size, and existing hydrology and soils within the wetland creation area. ii. Wetland mitigation techniques, seed source, planting specifications, and required buffer setbacks. In addition, the mitigation plan shall ensure adequate water supply is provided to the created wetlands in order to maintain the proper *(continued on next page)*	*[see previous page]*	*[see previous page]*	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)**:***

USS-11 *(continued from previous two pages)* hydrologic regimes required by the different types of wetlands created. Provisions to ensure the wetland water supply is maintained in perpetuity shall be included in the plan. iii. A monitoring program for restored, enhanced, created, and preserved wetlands on the project site. A monitoring program is required to meet three objectives; 1) establish a wetland creation success criteria to be met; 2) to specify monitoring methodology; 3) to identify as far as is possible, specific remedial actions that will be required in order to achieve the success criteria; and 4) to document the degree of success achieved in establishing wetland vegetation. (d) A monitoring plan shall be developed and implemented by a qualified biologist to monitor results of any on-site wetland restoration and creation for five years. The monitoring plan shall include specific success criteria, frequency and timing of monitoring, and assessment of whether or not maintenance activities are being carried out and how these shall be adjusted if necessary. *(continued on next page)*	*[see Page 41]*	*[see Page 41]*	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)**:***

USS-11 *(continued from previous three pages)* If monitoring reveals that success criteria are not being met, remedial habitat creation or restoration should be designed and implemented by a qualified biologist and subject to five years of monitoring as described above. Or (e) In lieu of developing a mitigation plan that outlines the avoidance, purchase, or creation of wetlands, FMFCD could purchase mitigation credits through a Corps approved Mitigation Bank. **Verification comments:**	*[see Page 41]*	*[see Page 41]*						
USS-12: When FMFCD proposes to provide drainage service outside in areas that support seasonal wetlands or vernal pools: (a) During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools, FMFCD shall conduct a preliminary rare plant assessment. The assessment will determine the likelihood on whether or not the project site could support rare plants. If it is determined that the project site would not support rare plants, then no further *(continued on next page)*	During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools	California Department of Fish & Wildlife (CDFW) and U.S. Fish and Wildlife Service (USFWS)				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)**:***

USS-12 *(continued from previous page)* action is required. However, if the project site has the potential to support rare plants; then a rare plant survey shall be conducted. Rare plant surveys shall be conducted by qualified biologists in accordance with the most current CDFG/USFWS guidelines or protocols and shall be conducted at the time of year when the plants in question are identifiable. (b) Based on the results of the survey, prior to design approval, FMFCD shall coordinate with CDFG and/or implement a Section 7 consultation with USFWS, shall determine whether the project facility would result in a significant impact to any special status plant species. Evaluation of project impacts shall consider the following: • The status of the species in question (*e.g.*, officially listed by the State or Federal Endangered Species Acts). • The relative density and distribution of the on-site occurrence versus typical occurrences of the species in question. *(continued on next page)*	*[see previous page]*	*[see previous page]*	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems - *Biological Resources* *(continued)***:**								
USS-12 *(continued from previous two pages)* • The habitat quality of the on-site occurrence relative to historic, current or potential distribution of the population. (c) Prior to design approval, and in consultation with the CDFG and/or the USFWS, FMFCD shall prepare and implement a mitigation plan, in accordance with any applicable State and/or federal statutes or laws, that reduces impacts to a less than significant level. **Verification comments:**	*[see Page 44]*	*[see Page 44]*						
USS-13: When FMFCD proposes to provide drainage service outside in areas that support seasonal wetlands or vernal pools: (a) During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools, FMFCD shall conduct a preliminary survey to determine the presence of listed vernal pool crustaceans. *(continued on next page)*	During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools	CDFW and USFWS				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)***:**

USS-13 *(continued from previous page)* (b) If potential habitat (vernal pools, seasonally inundated areas) or fairy shrimp exist within areas proposed to be disturbed, FMFCD shall complete the first and second phase of fairy shrimp presence or absence surveys. If an absence finding is determined and accepted by the USFWS, then no further mitigation shall be required for fairy shrimp. (c) If fairy shrimp are found to be present within vernal pools or other areas of inundation to be impacted by the implementation of storm drainage facilities, FMFCD shall mitigate impacts on fairy shrimp habitat in accordance with the USFWS requirements of the Programmatic Biological Opinion. This shall include on-site or off-site creation and/or preservation of fairy shrimp habitat at ratios ranging from 3:1 to 5:1 depending on the habitat impacted and the choice of on-site or off-site mitigation. Or mitigation shall be the purchase of mitigation credit through an accredited mitigation bank. **Verification comments:**	*[see previous page]*	*[see previous page]*	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems - *Biological Resources* *(continued)*:								
USS-14: When FMFCD proposes to construct drainage facilities in an area where elderberry bushes may occur: (a) During facility design and prior to initiation of construction activities, FMFCD shall conduct a project-specific survey for all potential Valley Elderberry Longhorn Beetle (VELB) habitats (elderberry shrubs), including a stem count and an assessment of historic or current VELB habitat. (b) FMFCD shall avoid and protect all potential identified VELB habitat where feasible. (c) Where avoidance is infeasible, develop and implement a VELB mitigation plan in accordance with the most current USFWS mitigation guidelines for unavoidable take of VELB habitat pursuant to either Section 7 or Section 10(a) of the Federal Endangered Species Act. The mitigation plan shall include, but might not be limited to, relocation of elderberry shrubs, planting of elderberry shrubs, and monitoring of relocated and planted elderberry shrubs. **Verification comments:**	During facility design and prior to initiation of construction activities	CDFW and USFWS				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems - *Biological Resources* *(continued)***:**								
USS-15: Prior to ground disturbing activities during nesting season (March through July) for a project that supports bird nesting habitat, FMFCD shall conduct a survey of trees. If nests are found during the survey, a qualified biologist shall assess the nesting activity on the project site. If active nests are located, no construction activities shall be allowed within 250 feet of the nest until the young have fledged. If construction activities are planned during the no n-breeding period (August through February), a nest survey is not necessary. **Verification comments:**	Prior to ground disturbing activities during nesting season (March through July) for a project that supports bird nesting habitat	CDFW and USFWS				**X**		
USS-16: When FMFCD proposes to construct drainage facilities in an area that supports bird nesting habitat: (a) FMFCD shall conduct a pre-construction breeding-season survey (approximately February 1 through August 31) of proposed project sites in suitable habitat (levee and canal berms, open grasslands with suitable burrows) during the same calendar year that construction is planned to begin. If phased construction procedures are planned for the proposed project, the results of the above survey shall be valid only for the season when it is conducted. *(continued on next page)*	Prior to ground disturbing activities during nesting season (March through July) for a project that supports bird nesting habitat	CDFW and USFWS				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)***:**

USS-16 *(continued from previous page)* (b) During the construction stage, FMFCD shall avoid all burrowing owl nest sites potentially disturbed by project construction during the breeding season while the nest is occupied with adults and/or young. The occupied nest site shall be monitored by a qualified biologist to determine when the nest is no longer used. Avoidance shall include the establishment of a 160-foot diameter non-disturbance buffer zone around the nest site. Disturbance of any nest sites shall only occur outside of the breeding season and when the nests are unoccupied based on monitoring by a qualified biologist. The buffer zone shall be delineated by highly visible temporary construction fencing. Based on approval by CDFG, pre-construction and pre-breeding season exclusion measures may be implemented to preclude burrowing owl occupation of the project site prior to project-related disturbance. Burrowing owls can be passively excluded from potential nest sites in the construction area, either by closing the burrows or placing one-way doors in the burrows according to current CDFG protocol. Burrows shall be examined not more than 30 days before construction to ensure that no owls have recolonized the area of construction. *(continued on next page)*	*[see previous page]*	*[see previous page]*	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F

Utilities and Service Systems - *Biological Resources* *(continued)***:**

USS-16 *(continued from previous two pages)* For each burrow destroyed, a new burrow shall be created (by installing artificial burrows at a ratio of 2:1 on protected lands nearby. **Verification comments:**	*[see Page 49]*	*[see Page 49]*						
USS-17: When FMFCD proposes to construct drainage facilities in the San Joaquin River corridor: (a) FMFCD shall not conduct instream activities in the San Joaquin River between October 15 and April 15. If this is not feasible, FMFCD shall consult with the National Marine Fisheries Service and CDFW on the appropriate measures to be implemented in order to protect listed salmonids in the San Joaquin River. (b) Riparian vegetation shading the main–channel that is removed or damaged shall be replaced at a ratio and quantity sufficient to maintain the existing shading of the channel. The location of replacement trees on or within *(continued on next page)*	During instream activities conducted between October 15 and April 15	National Marine Fisheries Service (NMFS), CDFW, and Central Valley Flood Protection Board (CVFPB)				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems / *Biological Resources* *(continued)***:**								
USS-17 *(continued from previous page)* FMFCD berms, detention ponds or river channels shall be approved by FMFCD and the Central Valley Flood Protection Board. **Verification comments:**	*[see previous page]*	*[see previous page]*						
Utilities and Service Systems – *Recreation / Trails*:								
USS-18: When FMFCD updates its District Service Plan: Prior to final design approval of all elements of the District Services Plan, FMFCD shall consult with Fresno County, City of Fresno, and City of Clovis to determine if any element would temporarily disrupt or permanently displace adopted existing or planned trails and associated recreational facilities as a result of the proposed District Services Plan. If the proposed project would not temporarily disrupt or permanently displace adopted existing or planned trails, no further mitigation is necessary. If the proposed project would have an effect on the trails and associated facilities, FMFCD shall implement the following: *(continued on next page)*	Prior to final design approval of all elements of the District Services Plan	DARM, PW, City of Clovis, and County of Fresno				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems – *Recreation / Trails* *(continued)***:**								
USS-18 *(continued from previous page)* (a) If short-term disruption of adopted existing or planned trails and associated recreational facilities occur, FMFCD shall consult and coordinate with Fresno County, City of Fresno, and City of Clovis to temporarily re-route the trails and associated facilities. (b) If permanent displacement of the adopted existing or planned trails and associated recreational facilities occur, the appropriate design modifications to prevent permanent displacement shall be implemented in the final project design or FMFCD shall replace these facilities. **Verification comments:**	*[see previous page]*	*[see previous page]*						
Utilities and Service Systems – *Air Quality*:								
USS-19: When District drainage facilities are constructed, FMFCD shall: (a) Minimize idling time of construction equipment vehicles to no more than ten minutes, or require that engines be shut off when not in use. *(continued on next page)*	During storm water drainage facility construction activities	Fresno Metropolitan Flood Control District and SJVAPCD				**X**		

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems – *Air Quality* *(continued)***:**								
USS-19 *(continued from previous page)* (b) Construction shall be curtailed as much as possible when the Air Quality Index (AQI) is above 150. AQI forecasts can be found on the SJVAPCD web site. (c) Off-road trucks should be equipped with on-road engines if possible. (d) Construction equipment should have engines that meet the current off-road engine emission standard (as certified by CARB), or be re-powered with an engine that meets this standard. **Verification comments:**	*[see previous page]*	*[see previous page]*						
Utilities and Service Systems – *Adequacy of Storm Water Drainage Facilities*:								
USS-20: Prior to exceeding capacity within the existing storm water drainage facilities, the City shall coordinate with FMFCD to evaluate the storm water drainage system and shall not approve additional development that would convey additional storm water to a facility that would experience an exceedance of capacity until the necessary additional capacity is provided. **Verification comments:**	Prior to exceeding capacity within the existing storm water drainage facilities	FMFCD, PW, and DARM				**X**	**X**	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

MITIGATION MEASURE	WHEN IMPLEMENTED	COMPLIANCE VERIFIED BY	A	B	C	D	E	F
Utilities and Service Systems – *Adequacy of Water Supply Capacity*:								
USS-21: Prior to exceeding existing water supply capacity, the City shall evaluate the water supply system and shall not approve additional development that demand additional water until additional capacity is provided. By approximately the year 2025, the City shall construct an approximately 25,000 AF/year tertiary recycled water expansion to the Fresno-Clovis Regional Wastewater Reclamation Facility in accordance with the 2013 Recycled Water Master Plan and the 2014 City of Fresno Metropolitan Water Resources Management Plan update. Implementation of Mitigation Measure USS-5 is also required prior to approximately the year 2025. **Verification comments:**	Prior to exceeding existing water supply capacity	DPU and DARM				X	X	
Utilities and Service Systems – *Adequacy of Landfill Capacity*:								
USS-22: Prior to exceeding landfill capacity, the City shall evaluate additional landfill locations and shall not approve additional development that could contribute solid waste to a landfill that is at capacity until additional capacity is provided. **Verification comments:**	Prior to exceeding landfill capacity	DPU and DARM					X	

A - Incorporated into Project
B - Mitigated
C - Mitigation in Process
D - Responsible Agency Contacted
E - Part of City-Wide Program
F - Not Applicable

CITY OF FRESNO
MITIGATED NEGATIVE DECLARATION
PROJECT SPECIFIC MITIGATION MONITORING CHECKLIST
ENVIRONMENTAL ASSESSMENT NO. P21-00726

Project/EA No. P21-00726 Date: April 6, 2021

	Mitigation Measure	Implemented By	When Implemented	Verified By
	HAZ-1: Prior to project construction activities, the project proponent shall: • Collect soil samples to evaluate for the potential presence of organochlorine pesticides, and arsenic related to the past agricultural operations at the site; • Collect soil samples from the vicinity of the historical structures to evaluate the potential presence of termiticides or lead from lead-based paint; • Abandon any irrigation wells and any other wells or septic systems that are uncovered during development activities in accordance with local, state, and federal regulations; • Evaluate any soils uncovered during development activities that exhibit evidence of petroleum hydrocarbon impacts, such as staining or odors; • If USTs are discovered during future assessment activities, take the appropriate steps to remove.			
	NOISE-1: During all construction activities, the project proponent shall take the following measures: • During construction, all construction equipment shall be equipped with appropriate noise attenuating devices; • Equipment shall be located in staging areas that will create the greatest distance between construction-related noise sources and sensitive receptors nearest the project site during all project construction; • Idling equipment shall be turned off when not in use; • Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.			

Appendix A

CalEEMod and Energy Calculations

Fresno Sports and Park Complex

Fresno County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48.50	Acre	48.50	2,112,660.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	45
Climate Zone	3			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on project size and details.

Off-road Equipment -

Demolition - Assumes 20,000 building sf for demolition.

Vehicle Trips - Project assumed not to generate net new trips, but instead would redistribute existing trips (see Traffic Study - Kittelson & Associates).

Energy Use - Lighting

Fresno Sports and Park Complex - Fresno County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	22.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	LightingElect	0.00	0.02
tblSolidWaste	SolidWasteGenerationRate	4.17	1.59
tblTripsAndVMT	VendorTripNumber	346.00	132.00
tblTripsAndVMT	WorkerTripNumber	887.00	338.00
tblTripsAndVMT	WorkerTripNumber	177.00	68.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	57,786,845.46	22,042,404.97

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1746	1.7367	1.2865	2.8800e-003	0.2814	0.0745	0.3559	0.1189	0.0690	0.1879	0.0000	256.7305	256.7305	0.0600	0.0000	258.2312
Maximum	**0.1746**	**1.7367**	**1.2865**	**2.8800e-003**	**0.2814**	**0.0745**	**0.3559**	**0.1189**	**0.0690**	**0.1879**	**0.0000**	**256.7305**	**256.7305**	**0.0600**	**0.0000**	**258.2312**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1746	1.7367	1.2865	2.8800e-003	0.2814	0.0745	0.3559	0.1189	0.0690	0.1879	0.0000	256.7303	256.7303	0.0600	0.0000	258.2310
Maximum	**0.1746**	**1.7367**	**1.2865**	**2.8800e-003**	**0.2814**	**0.0745**	**0.3559**	**0.1189**	**0.0690**	**0.1879**	**0.0000**	**256.7303**	**256.7303**	**0.0600**	**0.0000**	**258.2310**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	1.4481	1.4481
2	6-1-2021	8-31-2021	0.4533	0.4533
		Highest	1.4481	1.4481

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0199	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	12.2919	12.2919	5.6000e-004	1.1000e-004	12.3401
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.3228	0.0000	0.3228	0.0191	0.0000	0.7996
Water						0.0000	0.0000		0.0000	0.0000	0.0000	22.4434	22.4434	1.0100e-003	2.1000e-004	22.5313
Total	**0.0199**	**0.0000**	**4.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3228**	**34.7362**	**35.0589**	**0.0206**	**3.2000e-004**	**35.6719**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0199	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	12.2919	12.2919	5.6000e-004	1.1000e-004	12.3401
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.3228	0.0000	0.3228	0.0191	0.0000	0.7996
Water						0.0000	0.0000		0.0000	0.0000	0.0000	22.4434	22.4434	1.0100e-003	2.1000e-004	22.5313
Total	**0.0199**	**0.0000**	**4.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3228**	**34.7362**	**35.0589**	**0.0206**	**3.2000e-004**	**35.6719**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Fresno Sports and Park Complex - Fresno County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/26/2021	5	20	
2	Site Preparation	Site Preparation	3/27/2021	4/9/2021	5	10	
3	Grading	Grading	4/10/2021	5/21/2021	5	30	
4	Building Construction	Building Construction	5/22/2021	6/22/2021	5	22	
5	Paving	Paving	6/23/2021	7/20/2021	5	20	
6	Architectural Coating	Architectural Coating	7/21/2021	8/17/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Fresno Sports and Park Complex - Fresno County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	91.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	338.00	132.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8400e-003	0.0000	9.8400e-003	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**9.8400e-003**	**0.0155**	**0.0254**	**1.4900e-003**	**0.0144**	**0.0159**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0118	1.6500e-003	4.0000e-005	7.8000e-004	4.0000e-005	8.2000e-004	2.1000e-004	4.0000e-005	2.5000e-004	0.0000	3.4235	3.4235	3.0000e-004	0.0000	3.4309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.7000e-004	3.7800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0023	1.0023	2.0000e-005	0.0000	1.0030
Total	**9.4000e-004**	**0.0122**	**5.4300e-003**	**5.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4258**	**4.4258**	**3.2000e-004**	**0.0000**	**4.4339**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8400e-003	0.0000	9.8400e-003	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**9.8400e-003**	**0.0155**	**0.0254**	**1.4900e-003**	**0.0144**	**0.0159**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0118	1.6500e-003	4.0000e-005	7.8000e-004	4.0000e-005	8.2000e-004	2.1000e-004	4.0000e-005	2.5000e-004	0.0000	3.4235	3.4235	3.0000e-004	0.0000	3.4309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.7000e-004	3.7800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0023	1.0023	2.0000e-005	0.0000	1.0030
Total	**9.4000e-004**	**0.0122**	**5.4300e-003**	**5.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4258**	**4.4258**	**3.2000e-004**	**0.0000**	**4.4339**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.2000e-004	2.2700e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6014	0.6014	1.0000e-005	0.0000	0.6018
Total	**3.6000e-004**	**2.2000e-004**	**2.2700e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6014**	**0.6014**	**1.0000e-005**	**0.0000**	**0.6018**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.2000e-004	2.2700e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6014	0.6014	1.0000e-005	0.0000	0.6018
Total	**3.6000e-004**	**2.2000e-004**	**2.2700e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.6014**	**0.6014**	**1.0000e-005**	**0.0000**	**0.6018**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1301**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7425**	**81.7425**	**0.0264**	**0.0000**	**82.4034**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	7.3000e-004	7.5700e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0047	2.0047	5.0000e-005	0.0000	2.0059
Total	**1.2000e-003**	**7.3000e-004**	**7.5700e-003**	**2.0000e-005**	**2.4000e-003**	**1.0000e-005**	**2.4100e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**2.0047**	**2.0047**	**5.0000e-005**	**0.0000**	**2.0059**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1301**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7424**	**81.7424**	**0.0264**	**0.0000**	**82.4033**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	7.3000e-004	7.5700e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	2.0047	2.0047	5.0000e-005	0.0000	2.0059
Total	**1.2000e-003**	**7.3000e-004**	**7.5700e-003**	**2.0000e-005**	**2.4000e-003**	**1.0000e-005**	**2.4100e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**2.0047**	**2.0047**	**5.0000e-005**	**0.0000**	**2.0059**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.1918	0.1823	3.0000e-004		0.0105	0.0105		9.9100e-003	9.9100e-003	0.0000	25.4801	25.4801	6.1500e-003	0.0000	25.6338
Total	**0.0209**	**0.1918**	**0.1823**	**3.0000e-004**		**0.0105**	**0.0105**		**9.9100e-003**	**9.9100e-003**	**0.0000**	**25.4801**	**25.4801**	**6.1500e-003**	**0.0000**	**25.6338**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3900e-003	0.1634	0.0249	4.1000e-004	9.6200e-003	4.4000e-004	0.0101	2.7800e-003	4.2000e-004	3.2000e-003	0.0000	38.7896	38.7896	4.6800e-003	0.0000	38.9066
Worker	0.0148	9.0600e-003	0.0938	2.7000e-004	0.0297	1.9000e-004	0.0299	7.9000e-003	1.7000e-004	8.0700e-003	0.0000	24.8447	24.8447	6.1000e-004	0.0000	24.8600
Total	**0.0192**	**0.1725**	**0.1187**	**6.8000e-004**	**0.0393**	**6.3000e-004**	**0.0400**	**0.0107**	**5.9000e-004**	**0.0113**	**0.0000**	**63.6343**	**63.6343**	**5.2900e-003**	**0.0000**	**63.7667**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.1918	0.1823	3.0000e-004		0.0105	0.0105		9.9100e-003	9.9100e-003	0.0000	25.4801	25.4801	6.1500e-003	0.0000	25.6338
Total	**0.0209**	**0.1918**	**0.1823**	**3.0000e-004**		**0.0105**	**0.0105**		**9.9100e-003**	**9.9100e-003**	**0.0000**	**25.4801**	**25.4801**	**6.1500e-003**	**0.0000**	**25.6338**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3900e-003	0.1634	0.0249	4.1000e-004	9.6200e-003	4.4000e-004	0.0101	2.7800e-003	4.2000e-004	3.2000e-003	0.0000	38.7896	38.7896	4.6800e-003	0.0000	38.9066
Worker	0.0148	9.0600e-003	0.0938	2.7000e-004	0.0297	1.9000e-004	0.0299	7.9000e-003	1.7000e-004	8.0700e-003	0.0000	24.8447	24.8447	6.1000e-004	0.0000	24.8600
Total	**0.0192**	**0.1725**	**0.1187**	**6.8000e-004**	**0.0393**	**6.3000e-004**	**0.0400**	**0.0107**	**5.9000e-004**	**0.0113**	**0.0000**	**63.6343**	**63.6343**	**5.2900e-003**	**0.0000**	**63.7667**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.7000e-004	3.7800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0023	1.0023	2.0000e-005	0.0000	1.0030
Total	**6.0000e-004**	**3.7000e-004**	**3.7800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.0023**	**1.0023**	**2.0000e-005**	**0.0000**	**1.0030**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.7000e-004	3.7800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0023	1.0023	2.0000e-005	0.0000	1.0030
Total	**6.0000e-004**	**3.7000e-004**	**3.7800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.0023**	**1.0023**	**2.0000e-005**	**0.0000**	**1.0030**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**2.1900e-003**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.6600e-003	0.0172	5.0000e-005	5.4400e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5439	4.5439	1.1000e-004	0.0000	4.5468
Total	**2.7100e-003**	**1.6600e-003**	**0.0172**	**5.0000e-005**	**5.4400e-003**	**3.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5439**	**4.5439**	**1.1000e-004**	**0.0000**	**4.5468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**2.1900e-003**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.6600e-003	0.0172	5.0000e-005	5.4400e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5439	4.5439	1.1000e-004	0.0000	4.5468
Total	**2.7100e-003**	**1.6600e-003**	**0.0172**	**5.0000e-005**	**5.4400e-003**	**3.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5439**	**4.5439**	**1.1000e-004**	**0.0000**	**4.5468**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.2919	12.2919	5.6000e-004	1.1000e-004	12.3401
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.2919	12.2919	5.6000e-004	1.1000e-004	12.3401
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	42253.2	12.2919	5.6000e-004	1.1000e-004	12.3401
Total		**12.2919**	**5.6000e-004**	**1.1000e-004**	**12.3401**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	42253.2	12.2919	5.6000e-004	1.1000e-004	12.3401
Total		**12.2919**	**5.6000e-004**	**1.1000e-004**	**12.3401**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0199	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004
Unmitigated	0.0199	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004
Total	**0.0199**	**0.0000**	**4.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.7000e-004**	**8.7000e-004**	**0.0000**	**0.0000**	**9.2000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.7000e-004	8.7000e-004	0.0000	0.0000	9.2000e-004
Total	**0.0199**	**0.0000**	**4.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.7000e-004**	**8.7000e-004**	**0.0000**	**0.0000**	**9.2000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.4434	1.0100e-003	2.1000e-004	22.5313
Unmitigated	22.4434	1.0100e-003	2.1000e-004	22.5313

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 22.0424	22.4434	1.0100e-003	2.1000e-004	22.5313
Total		**22.4434**	**1.0100e-003**	**2.1000e-004**	**22.5313**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 22.0424	22.4434	1.0100e-003	2.1000e-004	22.5313
Total		**22.4434**	**1.0100e-003**	**2.1000e-004**	**22.5313**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3228	0.0191	0.0000	0.7996
Unmitigated	0.3228	0.0191	0.0000	0.7996

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.59	0.3228	0.0191	0.0000	0.7996
Total		**0.3228**	**0.0191**	**0.0000**	**0.7996**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.59	0.3228	0.0191	0.0000	0.7996
Total		**0.3228**	**0.0191**	**0.0000**	**0.7996**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fresno Sports and Park Complex

Fresno County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48.50	Acre	48.50	2,112,660.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	45
Climate Zone	3			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on project size and details.

Off-road Equipment -

Demolition - Assumes 20,000 building sf for demolition.

Vehicle Trips - Project assumed not to generate net new trips, but instead would redistribute existing trips (see Traffic Study - Kittelson & Associates).

Energy Use - Lighting

Fresno Sports and Park Complex - Fresno County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	22.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	LightingElect	0.00	0.02
tblSolidWaste	SolidWasteGenerationRate	4.17	1.59
tblTripsAndVMT	VendorTripNumber	346.00	132.00
tblTripsAndVMT	WorkerTripNumber	887.00	338.00
tblTripsAndVMT	WorkerTripNumber	177.00	68.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	57,786,845.46	22,042,404.97

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2819	46.4452	31.4632	0.0919	18.2141	2.0454	20.2595	9.9699	1.8817	11.8516	0.0000	9,222.6970	9,222.6970	1.9468	0.0000	9,250.8931
Maximum	**4.2819**	**46.4452**	**31.4632**	**0.0919**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8817**	**11.8516**	**0.0000**	**9,222.6970**	**9,222.6970**	**1.9468**	**0.0000**	**9,250.8931**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2819	46.4452	31.4632	0.0919	18.2141	2.0454	20.2595	9.9699	1.8817	11.8516	0.0000	9,222.6970	9,222.6970	1.9468	0.0000	9,250.8931
Maximum	**4.2819**	**46.4452**	**31.4632**	**0.0919**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8817**	**11.8516**	**0.0000**	**9,222.6970**	**9,222.6970**	**1.9468**	**0.0000**	**9,250.8931**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/26/2021	5	20	
2	Site Preparation	Site Preparation	3/27/2021	4/9/2021	5	10	
3	Grading	Grading	4/10/2021	5/21/2021	5	30	
4	Building Construction	Building Construction	5/22/2021	6/22/2021	5	22	
5	Paving	Paving	6/23/2021	7/20/2021	5	20	
6	Architectural Coating	Architectural Coating	7/21/2021	8/17/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Fresno Sports and Park Complex - Fresno County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	91.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	338.00	132.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.9844**	**1.5513**	**2.5357**	**0.1490**	**1.4411**	**1.5901**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0337	1.1510	0.1569	3.6300e-003	0.0797	3.8300e-003	0.0835	0.0218	3.6600e-003	0.0255		380.8229	380.8229	0.0310		381.5976
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0341	0.4385	1.2200e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		121.1716	121.1716	3.0200e-003		121.2472
Total	**0.1017**	**1.1850**	**0.5954**	**4.8500e-003**	**0.2029**	**4.5800e-003**	**0.2075**	**0.0545**	**4.3500e-003**	**0.0589**		**501.9945**	**501.9945**	**0.0340**		**502.8448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.9844**	**1.5513**	**2.5357**	**0.1490**	**1.4411**	**1.5901**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0337	1.1510	0.1569	3.6300e-003	0.0797	3.8300e-003	0.0835	0.0218	3.6600e-003	0.0255		380.8229	380.8229	0.0310		381.5976
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0341	0.4385	1.2200e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		121.1716	121.1716	3.0200e-003		121.2472
Total	**0.1017**	**1.1850**	**0.5954**	**4.8500e-003**	**0.2029**	**4.5800e-003**	**0.2075**	**0.0545**	**4.3500e-003**	**0.0589**		**501.9945**	**501.9945**	**0.0340**		**502.8448**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.0409	0.5263	1.4600e-003	0.1479	9.0000e-004	0.1488	0.0392	8.2000e-004	0.0401		145.4060	145.4060	3.6300e-003		145.4967
Total	**0.0816**	**0.0409**	**0.5263**	**1.4600e-003**	**0.1479**	**9.0000e-004**	**0.1488**	**0.0392**	**8.2000e-004**	**0.0401**		**145.4060**	**145.4060**	**3.6300e-003**		**145.4967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.0409	0.5263	1.4600e-003	0.1479	9.0000e-004	0.1488	0.0392	8.2000e-004	0.0401		145.4060	145.4060	3.6300e-003		145.4967
Total	**0.0816**	**0.0409**	**0.5263**	**1.4600e-003**	**0.1479**	**9.0000e-004**	**0.1488**	**0.0392**	**8.2000e-004**	**0.0401**		**145.4060**	**145.4060**	**3.6300e-003**		**145.4967**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0907	0.0454	0.5847	1.6200e-003	0.1643	1.0000e-003	0.1653	0.0436	9.2000e-004	0.0445		161.5622	161.5622	4.0300e-003		161.6630
Total	**0.0907**	**0.0454**	**0.5847**	**1.6200e-003**	**0.1643**	**1.0000e-003**	**0.1653**	**0.0436**	**9.2000e-004**	**0.0445**		**161.5622**	**161.5622**	**4.0300e-003**		**161.6630**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0907	0.0454	0.5847	1.6200e-003	0.1643	1.0000e-003	0.1653	0.0436	9.2000e-004	0.0445		161.5622	161.5622	4.0300e-003		161.6630
Total	**0.0907**	**0.0454**	**0.5847**	**1.6200e-003**	**0.1643**	**1.0000e-003**	**0.1653**	**0.0436**	**9.2000e-004**	**0.0445**		**161.5622**	**161.5622**	**4.0300e-003**		**161.6630**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3916	14.6863	2.0850	0.0376	0.8944	0.0392	0.9337	0.2575	0.0375	0.2951		3,938.9322	3,938.9322	0.4437		3,950.0246
Worker	1.5326	0.7674	9.8818	0.0274	2.7766	0.0168	2.7934	0.7365	0.0155	0.7520		2,730.4009	2,730.4009	0.0681		2,732.1042
Total	**1.9242**	**15.4536**	**11.9669**	**0.0650**	**3.6710**	**0.0561**	**3.7271**	**0.9940**	**0.0530**	**1.0470**		**6,669.3331**	**6,669.3331**	**0.5118**		**6,682.1288**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3916	14.6863	2.0850	0.0376	0.8944	0.0392	0.9337	0.2575	0.0375	0.2951		3,938.9322	3,938.9322	0.4437		3,950.0246
Worker	1.5326	0.7674	9.8818	0.0274	2.7766	0.0168	2.7934	0.7365	0.0155	0.7520		2,730.4009	2,730.4009	0.0681		2,732.1042
Total	**1.9242**	**15.4536**	**11.9669**	**0.0650**	**3.6710**	**0.0561**	**3.7271**	**0.9940**	**0.0530**	**1.0470**		**6,669.3331**	**6,669.3331**	**0.5118**		**6,682.1288**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0341	0.4385	1.2200e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		121.1716	121.1716	3.0200e-003		121.2472
Total	**0.0680**	**0.0341**	**0.4385**	**1.2200e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**121.1716**	**121.1716**	**3.0200e-003**		**121.2472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0341	0.4385	1.2200e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		121.1716	121.1716	3.0200e-003		121.2472
Total	**0.0680**	**0.0341**	**0.4385**	**1.2200e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**121.1716**	**121.1716**	**3.0200e-003**		**121.2472**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**0.2189**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3083	0.1544	1.9881	5.5200e-003	0.5586	3.3800e-003	0.5620	0.1482	3.1200e-003	0.1513		549.3114	549.3114	0.0137		549.6541
Total	**0.3083**	**0.1544**	**1.9881**	**5.5200e-003**	**0.5586**	**3.3800e-003**	**0.5620**	**0.1482**	**3.1200e-003**	**0.1513**		**549.3114**	**549.3114**	**0.0137**		**549.6541**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**0.2189**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3083	0.1544	1.9881	5.5200e-003	0.5586	3.3800e-003	0.5620	0.1482	3.1200e-003	0.1513		549.3114	549.3114	0.0137		549.6541
Total	**0.3083**	**0.1544**	**1.9881**	**5.5200e-003**	**0.5586**	**3.3800e-003**	**0.5620**	**0.1482**	**3.1200e-003**	**0.1513**		**549.3114**	**549.3114**	**0.0137**		**549.6541**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Unmitigated	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**		**0.0113**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**		**0.0113**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Fresno Sports and Park Complex

Fresno County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48.50	Acre	48.50	2,112,660.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	45
Climate Zone	3			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on project size and details.

Off-road Equipment -

Demolition - Assumes 20,000 building sf for demolition.

Vehicle Trips - Project assumed not to generate net new trips, but instead would redistribute existing trips (see Traffic Study - Kittelson & Associates).

Energy Use - Lighting

Fresno Sports and Park Complex - Fresno County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	22.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	10.00
tblEnergyUse	LightingElect	0.00	0.02
tblSolidWaste	SolidWasteGenerationRate	4.17	1.59
tblTripsAndVMT	VendorTripNumber	346.00	132.00
tblTripsAndVMT	WorkerTripNumber	887.00	338.00
tblTripsAndVMT	WorkerTripNumber	177.00	68.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	57,786,845.46	22,042,404.97

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2754	46.4532	31.3745	0.0874	18.2141	2.0454	20.2595	9.9699	1.8817	11.8516	0.0000	8,761.9492	8,761.9492	1.9464	0.0000	8,791.4398
Maximum	**4.2754**	**46.4532**	**31.3745**	**0.0874**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8817**	**11.8516**	**0.0000**	**8,761.9492**	**8,761.9492**	**1.9464**	**0.0000**	**8,791.4398**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2754	46.4532	31.3745	0.0874	18.2141	2.0454	20.2595	9.9699	1.8817	11.8516	0.0000	8,761.9492	8,761.9492	1.9464	0.0000	8,791.4398
Maximum	**4.2754**	**46.4532**	**31.3745**	**0.0874**	**18.2141**	**2.0454**	**20.2595**	**9.9699**	**1.8817**	**11.8516**	**0.0000**	**8,761.9492**	**8,761.9492**	**1.9464**	**0.0000**	**8,791.4398**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**	**0.0000**	**0.0113**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/26/2021	5	20	
2	Site Preparation	Site Preparation	3/27/2021	4/9/2021	5	10	
3	Grading	Grading	4/10/2021	5/21/2021	5	30	
4	Building Construction	Building Construction	5/22/2021	6/22/2021	5	22	
5	Paving	Paving	6/23/2021	7/20/2021	5	20	
6	Architectural Coating	Architectural Coating	7/21/2021	8/17/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Fresno Sports and Park Complex - Fresno County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	91.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	338.00	132.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	68.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.9844**	**1.5513**	**2.5357**	**0.1490**	**1.4411**	**1.5901**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0348	1.1809	0.1773	3.5500e-003	0.0797	3.9000e-003	0.0836	0.0218	3.7400e-003	0.0256		372.6168	372.6168	0.0350		373.4923
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0632	0.0400	0.3720	1.0700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		106.1985	106.1985	2.6600e-003		106.2650
Total	**0.0980**	**1.2209**	**0.5494**	**4.6200e-003**	**0.2029**	**4.6500e-003**	**0.2075**	**0.0545**	**4.4300e-003**	**0.0590**		**478.8153**	**478.8153**	**0.0377**		**479.7573**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9844	0.0000	0.9844	0.1490	0.0000	0.1490			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.9844**	**1.5513**	**2.5357**	**0.1490**	**1.4411**	**1.5901**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0348	1.1809	0.1773	3.5500e-003	0.0797	3.9000e-003	0.0836	0.0218	3.7400e-003	0.0256		372.6168	372.6168	0.0350		373.4923
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0632	0.0400	0.3720	1.0700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		106.1985	106.1985	2.6600e-003		106.2650
Total	**0.0980**	**1.2209**	**0.5494**	**4.6200e-003**	**0.2029**	**4.6500e-003**	**0.2075**	**0.0545**	**4.4300e-003**	**0.0590**		**478.8153**	**478.8153**	**0.0377**		**479.7573**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0758	0.0480	0.4465	1.2800e-003	0.1479	9.0000e-004	0.1488	0.0392	8.2000e-004	0.0401		127.4382	127.4382	3.1900e-003		127.5179
Total	**0.0758**	**0.0480**	**0.4465**	**1.2800e-003**	**0.1479**	**9.0000e-004**	**0.1488**	**0.0392**	**8.2000e-004**	**0.0401**		**127.4382**	**127.4382**	**3.1900e-003**		**127.5179**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0758	0.0480	0.4465	1.2800e-003	0.1479	9.0000e-004	0.1488	0.0392	8.2000e-004	0.0401		127.4382	127.4382	3.1900e-003		127.5179
Total	**0.0758**	**0.0480**	**0.4465**	**1.2800e-003**	**0.1479**	**9.0000e-004**	**0.1488**	**0.0392**	**8.2000e-004**	**0.0401**		**127.4382**	**127.4382**	**3.1900e-003**		**127.5179**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0842	0.0534	0.4961	1.4200e-003	0.1643	1.0000e-003	0.1653	0.0436	9.2000e-004	0.0445		141.5980	141.5980	3.5500e-003		141.6866
Total	**0.0842**	**0.0534**	**0.4961**	**1.4200e-003**	**0.1643**	**1.0000e-003**	**0.1653**	**0.0436**	**9.2000e-004**	**0.0445**		**141.5980**	**141.5980**	**3.5500e-003**		**141.6866**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0842	0.0534	0.4961	1.4200e-003	0.1643	1.0000e-003	0.1653	0.0436	9.2000e-004	0.0445		141.5980	141.5980	3.5500e-003		141.6866
Total	**0.0842**	**0.0534**	**0.4961**	**1.4200e-003**	**0.1643**	**1.0000e-003**	**0.1653**	**0.0436**	**9.2000e-004**	**0.0445**		**141.5980**	**141.5980**	**3.5500e-003**		**141.6866**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4119	14.8105	2.5044	0.0364	0.8944	0.0408	0.9352	0.2575	0.0390	0.2966		3,815.5795	3,815.5795	0.5037		3,828.1720
Worker	1.4229	0.9016	8.3834	0.0240	2.7766	0.0168	2.7934	0.7365	0.0155	0.7520		2,393.0058	2,393.0058	0.0599		2,394.5036
Total	**1.8348**	**15.7121**	**10.8878**	**0.0604**	**3.6710**	**0.0576**	**3.7286**	**0.9940**	**0.0545**	**1.0485**		**6,208.5853**	**6,208.5853**	**0.5636**		**6,222.6756**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4119	14.8105	2.5044	0.0364	0.8944	0.0408	0.9352	0.2575	0.0390	0.2966		3,815.5795	3,815.5795	0.5037		3,828.1720
Worker	1.4229	0.9016	8.3834	0.0240	2.7766	0.0168	2.7934	0.7365	0.0155	0.7520		2,393.0058	2,393.0058	0.0599		2,394.5036
Total	**1.8348**	**15.7121**	**10.8878**	**0.0604**	**3.6710**	**0.0576**	**3.7286**	**0.9940**	**0.0545**	**1.0485**		**6,208.5853**	**6,208.5853**	**0.5636**		**6,222.6756**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0632	0.0400	0.3720	1.0700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		106.1985	106.1985	2.6600e-003		106.2650
Total	**0.0632**	**0.0400**	**0.3720**	**1.0700e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**106.1985**	**106.1985**	**2.6600e-003**		**106.2650**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0632	0.0400	0.3720	1.0700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		106.1985	106.1985	2.6600e-003		106.2650
Total	**0.0632**	**0.0400**	**0.3720**	**1.0700e-003**	**0.1232**	**7.5000e-004**	**0.1240**	**0.0327**	**6.9000e-004**	**0.0334**		**106.1985**	**106.1985**	**2.6600e-003**		**106.2650**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**0.2189**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2863	0.1814	1.6866	4.8300e-003	0.5586	3.3800e-003	0.5620	0.1482	3.1200e-003	0.1513		481.4331	481.4331	0.0121		481.7345
Total	**0.2863**	**0.1814**	**1.6866**	**4.8300e-003**	**0.5586**	**3.3800e-003**	**0.5620**	**0.1482**	**3.1200e-003**	**0.1513**		**481.4331**	**481.4331**	**0.0121**		**481.7345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**0.2189**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2863	0.1814	1.6866	4.8300e-003	0.5586	3.3800e-003	0.5620	0.1482	3.1200e-003	0.1513		481.4331	481.4331	0.0121		481.7345
Total	**0.2863**	**0.1814**	**1.6866**	**4.8300e-003**	**0.5586**	**3.3800e-003**	**0.5620**	**0.1482**	**3.1200e-003**	**0.1513**		**481.4331**	**481.4331**	**0.0121**		**481.7345**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.487139	0.031901	0.169199	0.121386	0.017033	0.004732	0.033028	0.124746	0.002366	0.001590	0.005154	0.001097	0.000629

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Unmitigated	0.1093	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**		**0.0113**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	5.0000e-005	4.9700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0106	0.0106	3.0000e-005		0.0113
Total	**0.1093**	**5.0000e-005**	**4.9700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0106**	**0.0106**	**3.0000e-005**		**0.0113**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: FRESNO
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	**MPG**	
FRESNO	2021	All Other Buses	Aggregated	Aggregated	DSL	163.3759123	9551.723599	1372.357664	1.066679031	**8.954637078**	
FRESNO	2021	LDA	Aggregated	Aggregated	GAS	360187.0142	13826269.44	1691918.992	450.5829573	**30.68529162**	
FRESNO	2021	LDA	Aggregated	Aggregated	DSL	2734.668836	113419.567	13041.16806	2.240176367	**50.62974894**	
FRESNO	2021	LDA	Aggregated	Aggregated	ELEC	5771.621263	228949.6144	28804.39941	0		
FRESNO	2021	LDT1	Aggregated	Aggregated	GAS	39099.95365	1354856.639	175754.8755	52.1252267	**25.99234046**	
FRESNO	2021	LDT1	Aggregated	Aggregated	DSL	29.87393939	419.4733253	93.9839647	0.01653543	**25.36815417**	
FRESNO	2021	LDT1	Aggregated	Aggregated	ELEC	129.7655311	5482.677129	660.2390481	0		
FRESNO	2021	LDT2	Aggregated	Aggregated	GAS	129640.0253	4712300.458	596970.0264	198.0045045	**23.79895583**	
FRESNO	2021	LDT2	Aggregated	Aggregated	DSL	548.3314518	23832.76525	2687.423482	0.640468806	**37.211438**	
FRESNO	2021	LDT2	Aggregated	Aggregated	ELEC	713.4992138	23801.29738	3620.137061	0		
FRESNO	2021	LHD1	Aggregated	Aggregated	GAS	10624.69394	355805.1831	158292.1089	42.963626	**8.28154456**	
FRESNO	2021	LHD1	Aggregated	Aggregated	DSL	10656.82718	371708.625	134049.4796	21.02038574	**17.68324471**	
FRESNO	2021	LHD2	Aggregated	Aggregated	GAS	1825.478029	59952.66741	27196.90267	8.323817429	**7.202544737**	
FRESNO	2021	LHD2	Aggregated	Aggregated	DSL	3628.561563	128355.2011	45642.73974	8.141716014	**15.76512874**	
FRESNO	2021	MCY	Aggregated	Aggregated	GAS	18423.29031	148923.4391	36846.58062	3.935963267	**37.83659271**	
FRESNO	2021	MDV	Aggregated	Aggregated	GAS	124848.6639	4140987.568	564003.9311	215.1808357	**19.24422105**	
FRESNO	2021	MDV	Aggregated	Aggregated	DSL	2105.941898	86518.70538	10153.68686	3.196155058	**27.06962078**	
FRESNO	2021	MDV	Aggregated	Aggregated	ELEC	312.4966737	10759.61149	1601.534031	0		
FRESNO	2021	MH	Aggregated	Aggregated	GAS	1759.975585	15220.55632	176.0679576	3.213623157	**4.73626047**	
FRESNO	2021	MH	Aggregated	Aggregated	DSL	722.7873095	6309.523058	72.27873095	0.651750843	**9.680882086**	
FRESNO	2021	Motor Coach	Aggregated	Aggregated	DSL	59.76869668	7770.733598	872.6229715	1.242306715	**6.255084597**	
FRESNO	2021	OBUS	Aggregated	Aggregated	GAS	343.9261828	17738.4867	6881.275066	3.81183852	**4.653525224**	
FRESNO	2021	PTO	Aggregated	Aggregated	DSL	0	14761.34913	0	3.009193327	**4.90541734**	
FRESNO	2021	SBUS	Aggregated	Aggregated	GAS	86.90521149	4894.756624	347.6208459	0.534550326	**9.156774189**	
FRESNO	2021	SBUS	Aggregated	Aggregated	DSL	1106.638049	34721.91042	12770.44966	4.371790876	**7.94226243**	**MHD**
FRESNO	2021	T6 Ag	Aggregated	Aggregated	DSL	70.58470331	986.5981425	310.5726946	0.109064383	**9.046015876**	**8.984019**
FRESNO	2021	T6 CAIRP heavy	Aggregated	Aggregated	DSL	149.4455623	29407.45814	2181.90521	2.667127291	**11.02589225**	
FRESNO	2021	T6 CAIRP small	Aggregated	Aggregated	DSL	78.24582375	4095.853786	1142.389027	0.394920925	**10.37132633**	
FRESNO	2021	T6 instate construction hea	Aggregated	Aggregated	DSL	517.3970346	35207.97972	2339.131877	4.381177142	**8.036191777**	
FRESNO	2021	T6 instate construction sm	Aggregated	Aggregated	DSL	2198.030381	113731.8796	9937.209892	14.05918199	**8.089509022**	
FRESNO	2021	T6 instate heavy	Aggregated	Aggregated	DSL	1868.81872	241522.0626	21565.90893	24.86084134	**9.714959331**	
FRESNO	2021	T6 instate small	Aggregated	Aggregated	DSL	4091.470089	205725.3141	47214.99757	21.86108511	**9.410571938**	
FRESNO	2021	T6 OOS heavy	Aggregated	Aggregated	DSL	84.99599301	16840.98131	1240.941498	1.526099078	**11.03531321**	
FRESNO	2021	T6 OOS small	Aggregated	Aggregated	DSL	45.86234765	2383.189166	669.5902756	0.229891569	**10.36657925**	
FRESNO	2021	T6 Public	Aggregated	Aggregated	DSL	521.5352965	7851.259054	1581.990398	1.125424582	**6.97626405**	
FRESNO	2021	T6 utility	Aggregated	Aggregated	DSL	110.1189523	1853.1229	1266.367952	0.205809786	**9.004056297**	
FRESNO	2021	T6TS	Aggregated	Aggregated	GAS	926.1474538	51879.6628	18530.35826	10.96463468	**4.731545038**	**HHD**
FRESNO	2021	T7 Ag	Aggregated	Aggregated	DSL	54.1137815	830.8241065	238.1006386	0.145510213	**5.709730546**	**5.379501**
FRESNO	2021	T7 CAIRP	Aggregated	Aggregated	DSL	2654.271667	471356.3512	38752.36633	70.76853275	**6.660535874**	
FRESNO	2021	T7 CAIRP construction	Aggregated	Aggregated	DSL	139.9590605	25290.19768	632.7494708	4.396813342	**5.751937985**	
FRESNO	2021	T7 NNOOS	Aggregated	Aggregated	DSL	2864.474226	574611.4909	41821.3237	83.04795011	**6.919032802**	
FRESNO	2021	T7 NOOS	Aggregated	Aggregated	DSL	1042.19486	185193.7786	15216.04496	28.45751002	**6.507729541**	
FRESNO	2021	T7 other port	Aggregated	Aggregated	DSL	53.96604641	8643.165324	410.1419527	1.580636182	**5.468156064**	
FRESNO	2021	T7 POAK	Aggregated	Aggregated	DSL	284.8967002	32755.92016	2165.214922	6.263997875	**5.229235516**	
FRESNO	2021	T7 POLA	Aggregated	Aggregated	DSL	266.0142577	33509.94953	2021.708358	6.437710689	**5.205258694**	
FRESNO	2021	T7 Public	Aggregated	Aggregated	DSL	770.5682866	15575.68186	2337.390467	2.845323791	**5.474133353**	
FRESNO	2021	T7 Single	Aggregated	Aggregated	DSL	1037.685109	74341.10476	11974.74229	12.02959418	**6.179851428**	
FRESNO	2021	T7 single construction	Aggregated	Aggregated	DSL	892.2981086	62740.3288	4034.045056	11.80656174	**5.314022**	
FRESNO	2021	T7 SWCV	Aggregated	Aggregated	DSL	431.0296171	17588.1497	1681.015507	7.245638552	**2.427411963**	
FRESNO	2021	T7 SWCV	Aggregated	Aggregated	NG	63.8381311	2604.304657	248.9687113	1.140120734	**2.284235853**	
FRESNO	2021	T7 tractor	Aggregated	Aggregated	DSL	5014.592123	685159.73	63685.31996	95.1828025	**7.198356341**	
FRESNO	2021	T7 tractor construction	Aggregated	Aggregated	DSL	745.1217937	51755.24755	3368.666659	9.809894294	**5.275821126**	
FRESNO	2021	T7 utility	Aggregated	Aggregated	DSL	35.58888675	722.0536174	409.2721977	0.12285306	**5.877375944**	
FRESNO	2021	T7IS	Aggregated	Aggregated	GAS	3.57827957	472.6745653	71.59421764	0.119101015	**3.968686299**	
FRESNO	2021	UBUS	Aggregated	Aggregated	GAS	78.45019703	6763.939254	313.8007881	1.515811011	**4.462257633**	
FRESNO	2021	UBUS	Aggregated	Aggregated	DSL	20.05814875	2067.837991	80.23259498	0.269484577	**7.673307371**	
FRESNO	2021	UBUS	Aggregated	Aggregated	NG	119.5188953	13413.33	478.075581	3.087400739	**4.344538054**	

Off-road (i.e. On-site) Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source. Demolition, Site preparation, and Grading off-road mobile vehicle on-site gallons of fuel are calculated below.

Given Factor:	**133.5**	**metric tons**	**CO2**	**(provided in CalEEMod Output File)**
Conversion Factor:	2204.6262	pounds	per metric ton	
Intermediate Result:	**294,309**	**pounds**	**CO2**	
Conversion Factor:	22.38	pounds	CO2 per 1 gallon of diesel fuel	Source: U.S. EIA, 2016
Final Result:	**13,150.56**	**gallons**	**diesel fuel**	http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11

Unmitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Demolition	34.2400
Site Preparation	16.8530
Grading	82.4033

On-road Mobile (Construction) Energy Usage - Demolition

Step 1:

Total Daily Worker Trips (CalEEMod Output)

15

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

162

Total Daily Hual Trips (CalEEMod Outp

91

Haul Trip Length (miles) (CalEEMod Ou

7.3

Average Haul Daily VMT:

664

Step 2:

Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.51	0.03	0.17

(% mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

Fleet Mix for Workers (CalEEMod Outp

MHD	HHD
50%	50%

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

LDA	LDT1	LDT2
30.69	25.99	23.80

Therefore:

Weighted Average Worker MPG Factor

20.48

Diesel:

MHD	HHD
8.98	5.38

Weighted Average Hauler (Diesel) MPG

7.18

Step 3:

Therefore:

8 Worker daily gallons of gasoline

Therefore:

92 Hauler daily gallons of

Step 4:

20 **# of Days (CalEEMod Output)**

Therefore:

Result:

158 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Site Preparation

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

18

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

194

Step 2: Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.51	0.03	0.17

(% mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

LDA	LDT1	LDT2
30.69	25.99	23.80

Therefore:

Weighted Average Worker MPG Factor

20.48

Step 3: **Therefore:**

9 Worker daily gallons of gasoline

Step 4: 10 **# of Days (CalEEMod Output)**

Therefore:

Result: **95** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Grading

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

216

Step 2: Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.51	0.03	0.17

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

LDA	LDT1	LDT2
30.69	25.99	23.80

Therefore:

Weighted Average Worker MPG Factor

20.48

Step 3: **Therefore:**

11 Worker daily gallons of gasoline

Step 4: 30 **# of Days (CalEEMod Output)**

Therefore:

Result: **316** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Building Construction

Step 1:

Total Daily Worker Trips (CalEEMod Output)

338

Total Daily Vendor Trips (CalEEMod Output)

132

Worker Trip Length (miles) (CalEEMod Output)

10.8

Vendor Trip Length (miles) (CalEEMod Output)

7.3

Therefore:

Average Worker Daily VMT:

3,650

Average Vendor Daily VMT:

964

Step 2:

Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 18)

LDA	LDT1	LDT2
0.51	0.03	0.17

Assumed Fleet Mix for Vendors

Fleet Mix for Workers (CalEEMod Output)

MHD	HHD
50%	50%

And:

MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

Gasoline:

LDA	LDT1	LDT2
30.69	25.99	23.80

Diesel:

MHD	HHD
8.98	5.38

Therefore:

Weighted Average Worker (Gasoline) MPG Factor

20.48

Weighted Average Vendor (Diesel) MPG Factor

7.18

Step 3:

Therefore:

178 **Worker daily gallons of gasoline**

Therefore:

134 **Vendor daily gallons of diesel**

Step 4:

22 **# of Days (CalEEMod Output)**

Therefore:

3,922 **Total gallons of gasoline**

Therefore:

2,952 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Paving

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

162

Step 2: Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.51	0.03	0.17

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

LDA	LDT1	LDT2
30.69	25.99	23.80

Therefore:

Weighted Average Worker MPG Factor

20.5

Step 3: **Therefore:**

8 Worker daily gallons of gasoline

Step 4: 20 **# of Days (CalEEMod Output)**

Therefore:

Result: **158** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

68

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

734

Step 2: Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.51	0.03	0.17

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2017 Output) - Year 2021

LDA	LDT1	LDT2
30.69	25.99	23.80

Therefore:

Weighted Average Worker MPG Factor

20.5

Step 3: **Therefore:**

36 Worker daily gallons of gasoline

Step 4: 20 **# of Days (CalEEMod Output)**

Therefore:

Result: **717** **Total gallons of gasoline**

Appendix B

Cultural Resource Assessment
(Confidential)

Appendix C

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

SOUTHEAST FRESNO REGIONAL PARK

2155 South Peach Avenue

Fresno, California

WKA No. 12987.01

January 27, 2021

Revised: February 17, 2021

Prepared for:

Mr. Steve McMurtry

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Phase I Environmental Site Assessment
SOUTHEAST FRESNO REGIONAL PARK
2155 South Peach Avenue
Fresno, California
WKA No. 12987.01
January 27, 2021
Revised: February 17, 2021

Wallace-Kuhl & Associates (WKA), on behalf of De Novo Planning Group, prepared this Phase I Environmental Site Assessment for the Southeast Fresno Regional Park located at 2155 South Peach Avenue in Fresno, California. We declare that, to the best of our professional knowledge and belief, the report preparer and reviewer meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. We have developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312 et seq. Resumes of the key staff who prepared this report are included in Appendix A.

WALLACE-KUHL & ASSOCIATES



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*Supporting Documents Appendix contains: Custom Soil Resource Report, EDR® Reports: Sanborn Map Search, Historical Topographic Maps, Aerial Photographic Decade Package, and City Directory Report; Building Permits, FEMA Flood Map, and Environmental Lien Search Report.

EXECUTIVE SUMMARY

The purpose of this Phase I Environmental Site Assessment (ESA) was to assess the Southeast Fresno Regional Park (herein referred to as Site) for evidence of Recognized Environmental Conditions (RECs) resulting from current and/or former Site activities. The Site is located at 2155 South Peach Avenue in Fresno, California (Figures 1, 2, 3, and 4) and is comprised of 47.21 acres of land. The Site is identified by three Fresno County Assessor's Parcel Numbers (APNs): 473-030-07T and 481-020-29T and -30T (Figure 3). An off-site railroad track transects the Site from east to west dividing it into two areas. Fresno County APN 473-030-07T is located to the north of the railroad tracks. Fresno County APNs 481-020-29T and -30T are located to the south of the railroad tracks. For the purposes of this report, Fresno County APN 473-030-07T will be referred to as Area A and Fresno County APNs 481-020-29T and -30T will be referred to as Area B. Area A is currently developed with the frame of a structure and a community garden. Area B was observed to have several concrete pads that were fenced off and two irrigation wells. The following presents a list of observations and findings identified during the preparation of this report:

- The historical land use research dating back to the early 1900s revealed that Area A was developed with structures and vineyards by 1937. Sixteen structures were present on the western portion from at least 1937 to 2020; however, eight of the structures were constructed after 1983. The areas outside of the structures were planted with vineyards from at least 1937 to at least 1998. A community garden has been present on the southern portion since at least 2012. All structures were removed from Area A by late 2020.
- Area A was occupied by the United States Department of Agriculture Agricultural Research Station (USDA ARS) from at least 1937 to 1992.
- Between 1989 and 1995, seven underground storage tanks (USTs) were removed from Area A. The UTSs were located adjacent to structures. Petroleum hydrocarbon impacted soils were left in-place beneath two structures. See Section 4.3.1 for additional information.
- The historical land use research dating back to the early 1900s revealed that Area B was developed with structures, vineyards, orchards, and ponds by 1937. At least 15 structures were located on the western and west-central portions of Area B from at least 1937 to at least 1979. Two structures were located on the southwestern portion from at least 1957 to at least 1973. All structures were removed from Area B by 1984. Areas

outside of the structures were planted with vineyards and orchards or developed with ponds between 1937 and 1979.

- City directory reports indicated that Henrietta Fruit juices and concentrates operated at 2155 South Peach Avenue from at least 1962 to at least 1980. 2155 South Peach Avenue is associated with one of the APNs in Area B. Building department records indicate that permits were issued to Henrietta Rancho Products between 1960 and 1981. The permits issued in 1981 were for the demolition of structures.
- The City of Fresno provided a Grant Deed, dated September 25, 1952, to WKA. According to the Grant Deed, the Henrietta Ranch Products Company acquired Area B from Mr. E. Pusey Cain. According to the Grant Deed, Mr. Cain had acquired the property on March 20, 1934
- Notations on historical topographic maps indicate that a "US Experimental Station" operated on Area B from at least 1946 to 1981. WKA did not locate information regarding the operations of a US Experimental Station.
- According to a history of the USDA Agricultural Research Station (ARS) located on the USDA website, Area B was acquired by the USDA in 1989.
- One irrigation well was observed on the northwestern portion of Area A. Two irrigation wells were observed on the central portion of Area B.
- According to environmental records, dry wells were used for the disposal of sanitary and laboratory waste on Area A until 1985. The dry wells have been plugged and abandoned. Assessment of the dry wells indicated low concentrations of chemicals were present around one of the wells. The United States Environmental Protection Agency (US EPA) reviewed the assessment report for the dry wells and determined that no further action was warranted. WKA was unable to locate the 1991 Geotechnical Report regarding the dry wells prior to the completion of this Phase I ESA. See Section 4.3.1 for additional information.
- According to an environmental lien search, no environmental liens are associated with the Site. However, an activity use limitation (AUL) has been recorded on the deed that requires that the Site be used for public purposes.
- Building maintenance activities may have included the application of persistent pesticides (termiticides) around the foundation of the former structures to prevent pest invasions, such as termites.
- Given the age of the historical development of the Site, it is likely that lead-based paints were used in the construction and/or maintenance of the former Site buildings.
- Given the documentation reviewed concerning the agency listings for neighboring facilities, none of the facilities reviewed is likely to have a negative impact on the Site.

- Based on the completion of the vapor encroachment condition (VEC) screening matrix, WKA concludes a VEC can be ruled out because a VEC does not or is not likely to exist.

WKA has performed this ESA in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 for the Southeast Fresno Regional Park.

This assessment has revealed no RECs in connection with the Site except the following:

- On-site concerns were noted from the mixing of agricultural chemicals adjacent to irrigation wells as reported by a USDA staff member in 1985.
- On-site concerns were noted from the historical agriculture activities including the raising of vineyards and orchards and the potential for residues of historically applied persistent pesticides.
- On-site concerns were noted from the historical presence of structures on Area A from at least 1937 to 2020 and on Area B from at least 1937 to at least 1979 and the potential for residues of historically applied persistent pesticides (termiticides) and lead from lead-based paint to be present in surface soils in the vicinity of the structures. The concerns are noted from structures that were constructed before 1975 for lead and before 1988 for persistent pesticides.
- On-site concerns were noted regarding the petroleum hydrocarbon impacted soils that were left in-place beneath two structures in Area A after the removal of USTs.

1.0 INTRODUCTION

1.1 Purpose

The purpose of this Phase I Environmental Site Assessment (ESA) was to evaluate the Southeast Fresno Regional Park (herein referred to as Site) for evidence of potential Recognized Environmental Conditions (RECs) resulting from current and/or former site activities as defined by the American Society of Testing and Materials (ASTM) Standard E 1527-13 (ASTM, 2013).

According to the ASTM, "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 under CERCLA [Comprehensive Environmental Response, Compensation and Liability Act] liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"): that is, the practice that constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B)."

This ESA has been performed in general conformance with the ASTM Standard E 1527-13 and the scope and limitations defined in Wallace-Kuhl & Associates (WKA) proposal, 3PR20110, dated July 17, 2020.

1.2 Scope of Services

WKA has completed this ESA for the Site shown on Figures 1 through 4. Mr. Steve McMurtry with De Novo Planning Group authorized WKA to proceed with this assessment via email correspondence on November 24, 2020.

The scope of this assessment included the following:

- Conduct a site reconnaissance for visual evidence of surface contamination and potential sources of subsurface contamination;
- Conduct a visual inspection of the adjoining properties for evidence of RECs;
- Conduct interviews with the following, as available:
  - Key site manager,
  - Major occupants,

  - Past and present owners, operators,
  - Government and/or agency personnel, and,
  - Inquiries conducted at abandoned sites may include interviews with owners or occupants of neighboring or nearby properties;
- Conduct a records review, which included the following:
  - Physical setting documents to determine regional geology, general soil information, and local and regional groundwater conditions,
  - Historical information, including but not limited to, Sanborn maps, topographic maps, aerial photographs, ownership records, building department records, local street directories, zoning and land use records, and prior assessments, as available,
  - Environmental records, including federal, state, tribal, and county regulatory agency lists that will help identify RECs on the Site and the adjoining properties, and,
  - Based on the outcome of the database search, review of specific regulatory agency files for identified contaminated facilities in order to evaluate whether the listed facilities are hazardous materials threats to the Site;
- Conduct a preliminary screen for vapor encroachment conditions on the Site per ASTM E2600-15;
- Review of the completed *ASTM E 1527-13 User Questionnaire* (*Questionnaire*) regarding Recorded Environmental Liens, activity and use limitations (AULs), relationship of the purchase price to the fair market value of the Site, and any specialized knowledge of the Site;
- Review of environmental liens and Activity and Use Limitations (AULs) reports, as provided; and
- Prepare a final report of the results of the ESA.

1.3 Special Terms and Conditions

No special terms or conditions to the WKA Environmental Site Assessment Consulting Agreement or the WKA scope of services were requested or performed during the preparation of this report. De Novo Planning Group authorized WKA to perform a search for recorded environmental liens and Activity and Use Limitations (AULs) for the Site. Discussion regarding the search is included in Section 4.3.3 of this report.

1.4 User Provided Information

WKA provided De Novo Planning Group a copy of the User Questionnaire and the Helpful Documents checklist. Mr. Josh Smith, De Novo Planning Group, completed and returned the documents to WKA. Discussion regarding his responses is provided in the following section. A copy of the completed questionnaire is included in Appendix B.

In summary, Mr. Smith was not aware of any records of environmental liens or AULs currently recorded against the Site. Mr. Smith stated he does not possess specialized knowledge or experience related to the Site. Mr. Smith stated that he is not aware of any obvious indicators that point to the presence or likely presence of contamination at the Site.

Mr. Smith was not aware of existing “Helpful Documents” as defined in Section 10.8.1 of the ASTM Standard as noted on the “Helpful Documents Checklist” included in Appendix B.

2.0 SITE DESCRIPTION

2.1 Site and Vicinity General Characteristics

The Site is located at 2155 South Peach Avenue in Fresno, California (Figures 1 and 2). The Site is comprised of three Fresno County Assessor's Parcel Number (APN) 473-030-07T and 481-020-29T and -30T, totaling 47.21 acres of land. For the purposes of this report, the three parcels have been separated into two areas, Area A and Area B. Area A consists of Fresno County APN 473-030-07T. Area B consists of Fresno County APNs 481-020-29T and -30T. Area A was developed with the frame of a structure and a community garden. Area B was observed to have several concrete pads that were fenced off and two irrigation wells (Figure 3). Railroad tracks transect the Site parcels from east to west between Areas A and B. Surrounding land use consisted of residential subdivisions (Figure 4).

Area A was developed with 16 structures between 1937 and 2020. Eight of the structures were developed after 1984. Area B was developed with 15 structures on the west-central portion from at least 1937 to 1981. Two structures were located on the southwestern portion of Area B from at least 1950 to at least 1973. Given the age of the historical development on the Site, it is likely that lead-based paints were used in the construction and/or maintenance of the former Site buildings that were constructed before 1975. Building maintenance activities may have included the application of persistent pesticides (termiticides) around the foundation of the former structures that were present before 1984 to prevent pest invasions, such as termites.

2.2 Site Reconnaissance

A visual site reconnaissance was conducted by WKA on December 9, 2020. Figure 5 provides color photographs of the Site taken during the site reconnaissance.

On the day of site reconnaissance, Area A was primarily vacant land. WKA observed one concrete pad and wood frame that is a remnant of a structure on the northwestern portion. WKA observed several depressions on the northwestern portion that were the former locations of structures. WKA observed remnants of an irrigation well on the northern portion of Area A. A pit is present on the western portion, which is the location of a sewer stub. A pile of soil was located adjacent to the pit. WKA observed recently planted trees and associated irrigation on the northern and eastern portions. A community garden is located on the southern portion of the Site. A storage shed was located to the west of the community garden. The shed's door was welded shut and a City of Fresno representative stated that it was empty. WKA observed nuisance dumping outside of the shed. WKA observed remnant concrete and asphalt surfaces and a shallow basin on the southeastern portion of Area A.

Area B was vacant land. The majority of Area B was bare soil that had recently been disced. WKA observed three fenced areas within Area B. The largest fenced area is located on the western portion. WKA observed a small concrete pad and bollards within the fenced area. A second smaller fenced area is located to the south of the large fenced area. An irrigation well is located within the fenced area. The third fenced area is located approximately 350 feet east of the two previously noted fenced areas. WKA observed a second irrigation well within the fenced area. A pile of concrete rubble and metal debris was observed adjacent to the east of the third fenced area. A concrete pad was located to the southeast of the third fenced area.

2.2.1 Municipal Infrastructure and Utilities

Pacific Gas and Electric (PG&E) provides electricity and natural gas to the Site vicinity. The City of Fresno provides potable water and sanitary sewer service to the Site vicinity. One pole-mounted transformer was observed in the right-of-way between Area A and South Peach Avenue. One pole-mounted transformer was observed within Area B.

2.3 Adjoining Properties

The Site is bounded to the north, east, and south by residences. South Peach Avenue is located to the west of the Site. Vacant land is located beyond South Peach Avenue to the west and southwest of Area B. A residential subdivision is located beyond South Peach Avenue to the west and northwest of Area A.

3.0 INTERVIEWS

Interviews with various persons familiar with the site vicinity, including representatives of public agencies, were conducted for the purpose of identifying past and present uses, which may have contributed to RECs on the Site. Results of those interviews are discussed in the following sections.

3.1 Owner or Key Site Manager

WKA provided Ms. Summer Cecil, City of Fresno, with a questionnaire regarding the Site. The questionnaire was completed by City of Fresno staff and returned to WKA by Ms. Cecil. According to information provided on the questionnaire, the City of Fresno Parks and Recreation received the Site approximately 14 years ago from the United States Federal Government. The Site had been occupied by the United States Department of Agricultural Horticultural Crops Research Laboratory and was declared surplus property in October 2004. The City of Fresno indicated that a 2015 report indicated 29 structures were present on the northern portion of the Site; however, WKA believes that there is a typo on the questionnaire. (A copy of the 2015 report, Field Inspection and Evaluation for USDA Horticultural Field Station, dated February 3, 2015, has been provided in Appendix C.) The Site is currently vacant land with a community garden on Area A. The City of Fresno staff members are not aware of any soil that has been imported to the Site. The City of Fresno noted that a 2015 report indicated that a basin was located on the southwestern portion of Area A. The City of Fresno staff reported that two fuel tanks and a cement tank with unknown use were noted on a diagram included in the 2015 report. According to The City of Fresno staff, structures that were present on Area A burned down as a result of a fire started by trespassers in mid-2020. The structures in Area A were demolished after the fire. The City of Fresno staff are not aware of any environmental liens that have been recorded for the Site.

The City of Fresno provided building permit documents, which are summarized in Section 4.2.6. The City of Fresno also provided several Cultural Resource documents for the Site; however, the documents did not provide information regarding the historical use, storage, or disposal of hazardous materials or petroleum products.

3.2 Occupants (Multi-family or Major)

The only active use at the Site is the community garden. Information regarding the community garden was provided by Mr. Ricardo Rodriguez, City of Fresno Parks, After School, Recreation, and Community Services (PARCS) department. The community garden is managed by Fresno Metro Ministry. He stated that the community garden uses City of Fresno municipal water for irrigation. According to Mr. Rodriguez, the garden is organic, and gardeners only utilize natural products for herbicides and pesticides.

3.3 Past Owners, Operators, and/or Occupants

The Site was previously owned and occupied by the United States Department of Agricultural (USDA) Horticultural Crops Research Laboratory. WKA did not interview a representative from the USDA; however, a document discussing the history of the facility that occupied Area A was located on the USDA website and is summarized in Section 4.2.9. A copy of the history is provided in Appendix C.

3.4 State and/or Local Government Officials

The Fresno County Department of Public Health Environmental Health publishes their records on an Environmental Health Document Portal. Information reviewed on the Environmental Health Document Portal website is provided in Section 4.3.

The State Water Resources Control Board (SWRCB) publishes their records on their GeoTracker website. When records are unavailable on GeoTracker, WKA makes direct contact to request unpublished documents from the SWRCB. WKA reviewed information for facilities within the vicinity of the Site on the GeoTracker website and a summary is provided in Section 4.3.

The Department of Toxic Substances Control (DTSC) publishes their records on their EnviroStor website. When records are unavailable on EnviroStor, WKA makes direct contact to request unpublished documents from the DTSC. WKA reviewed information for facilities within the vicinity of the Site on the DTSC EnviroStor website and a summary is provided in Section 4.3.

3.5 Abandoned Properties

As referenced in 40 CFR Part 312, in the case of inquiries conducted at "abandoned properties," as defined in §312.23(d), "where there is evidence of potential unauthorized uses of the Site or evidence of uncontrolled access to the Site, the environmental professional's inquiry must include interviewing one or more (as necessary) owners or occupants of neighboring or nearby properties from which it appears possible to have observed uses of, or releases at, such abandoned properties…" No evidence of potential unauthorized uses, or evidence of uncontrolled access to the Site was observed. The Site is not considered an abandoned property and therefore, WKA did not interview owners or occupants of neighboring properties. The City of Fresno Staff indicated that trespassing has occurred at the Site, including an instanced that resulted in a structure fire in mid-2020. Staff from The City of Fresno were not aware of hazardous materials or petroleum products having been dumped at the Site.

4.0 RECORDS REVIEW

The purpose of the records review is to obtain and review information concerning the current and historical use of the Site and adjoining properties that would help identify the presence of RECs in connection with the Site. The records review included review and discussion of the following, as available:

- Physical Setting Source(s);
- Historical Use Information; and,
- Environmental Record Sources.

4.1 Physical Setting Source(s)

The Site is depicted on the 1981 United States Geological Survey (USGS) 7.5 Minute topographic map of the *Malaga, California Quadrangle* as developed with four structures labeled as the US Department of Agriculture Horticultural Field Station on the northern portion and 16 structures labeled as the US Experimental Station on the southern portion. The Site is located within Sections 8 and 17, Township 14 South, Range 21 East, Mount Diablo Base and Meridian, at an elevation of approximately +300 feet relative to mean sea level (msl).

4.1.1 Regional and Local Geology

The Site is located in the Great Valley geomorphic province of California, a 500-mile, northwest-trending structural trough, generally constrained to the west by the Coast Ranges and to the east by the foothills of the Sierra Nevada Range (Norris and Webb, 1990). The Great Valley consists of two valleys lying end-to-end, with the Sacramento Valley to the north and the San Joaquin Valley to the south.

The Sacramento and San Joaquin Valleys have been filled to their present elevations with thick sequences of sediment derived from both marine and terrestrial sources. The sedimentary deposits range in thickness from relatively thin deposits along the eastern valley edge to more than 25,000 feet in the south-central portion of the Great Valley (Norris and Webb, 1990). The sedimentary geologic formations of the Great Valley province vary in age from Jurassic to Quaternary, with the older deposits being primarily marine in origin. Younger sediments are continentally derived and were typically deposited in lacustrine, fluvial, and alluvial environments with their primary source being the Sierra Nevada Range.

The 1965 USGS *Geologic Map of California: Fresno Sheet*, shows the Site to be underlain by Pleistocene nonmarine and Great Valley fan deposits.

4.1.2 Radon Gas

Radon is a naturally occurring gas that is formed from the radioactive breakdown of radium in soil, rock, and water. Radon can move up through the ground and into living spaces through pathways and penetrations in a structure's foundation. Radon's potential presence in indoor air can only be assessed within existing buildings, as there are no currently available real time methods to assess Radon's presence over undeveloped properties.

The United States Environmental Protection Agency (EPA) has developed the EPA Map of Radon Zones to assist organizations in implementing radon-resistant building codes. The map assigns each county in the United States to one of three zones based on radon potential. The EPA uses a continuous exposure level of 4.0 picoCuries per liter (pCi/L) as an action level at which additional action is recommended.

The EPA Radon Zones are defined as:

- Zone 1 (Highest Potential) – Average indoor radon screening level greater than 4 pCi/L.
- Zone 2 (Moderate Potential) – Average indoor radon screening level between 2 and 4 pCi/L.
- Zone 3 (Lowest Potential) – Average indoor radon screening less than 2 pCi/L.

According to information provided by Environmental Data Resources in the Radius Map Report, the Site is located in Zone 2 (EDR, 2020a).

4.1.3 Soil Survey

The United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) has created a web-based service for accessing soil information. According to the NRCS Web Soil Survey (WSS) the majority of the near-surface soils on the Site consist of Ramona loam; Ramona loam, hard substratum; and, Hanford sandy loam (USDA, 2020). A copy of the Custom Soil Resource Report for the Site is provided in Appendix C.

4.1.4 Regional and Local Groundwater

The Site is located within the California Department of Water Resources (DWR) defined San Joaquin Valley Groundwater Basin of the Tulare Lake Hydrologic Region. WKA searched data on the DWR website and found no DWR monitored groundwater wells within one-half mile of the Site (DWR, 2020).

WKA also searched the State Water Resources Control Board's (SWRCB) GeoTracker website for quarterly groundwater monitoring reports completed for facilities in the immediate vicinity of the Site. No facilities are located within one-half mile of the Site (SWRCB, 2020).

4.2 Historical Use Information

WKA reviewed historical information to develop a history of the previous uses of the Site and surrounding area, in order to evaluate the Site and adjoining properties for evidence of RECs. Standard historical sources reviewed during the preparation of this report included the following, as available:

- Sanborn® Maps;
- Topographic Maps;
- Oil and Gas Well Maps;
- Aerial Photographs;
- Ownership Records;
- Building Department Records;
- Local Street Directories;
- Zoning and Land Use Records;
- Other Historical Sources; and,
- Prior Assessments.

Discussion of these historical sources is provided in the following sections.

4.2.1 Sanborn® Maps

Sanborn® Maps are obtained through Environmental Data Resources, Inc. (EDR®). EDR® is a national commercial provider of environmental database information. Sanborn® Maps are detailed drawings of site development, and were typically used by fire insurance companies to determine site fire insurability. According to EDR®, Sanborn® Map coverage of the Site is not available (EDR®, 2020b). The EDR® Sanborn® Map Report is provided in Appendix C.

4.2.2 Topographic Maps

Historical USGS topographic maps with coverage of the Site and outlying land areas were reviewed. Topographic maps with coverage of the Site dated 1923, 1946, 1947, 1948, 1964, 1972, 1981, and 2012 were available for review (EDR®, 2020c). Copies of the topographic maps compiled by EDR® with coverage of the Site are included in Appendix C. Table 1 notes the changes in the vicinity of the Site.

Table 1		
Year	**Scale**	**Observations**
1923	1:31,680	Site: One structure is depicted on the southern portion. Railroad tracks transect Areas A and B from east to west. North: Vacant land. East: Vacant land. South: A structure is depicted. West: A street followed by a structure labeled as "Experimental Farm."
1946	1:24,000	Site: Three structures are depicted on the northern portion. Seven additional structures are depicted on the southern portion and are labeled as "US Experimental Station." North: Tinting indicating wooded land is depicted. East: Vacant land followed by a trail road with four structures along it. South: Tinting indicating wooded land is depicted. West: Six additional structures are depicted.
1947	1:24,000	No significant changes noted for the Site or the vicinity.
1948	1:25,000	No significant changes noted for the Site or the vicinity.
1964	1:24,000	Site: One additional structure is depicted on the northern portion. Symbols indicating orchards are depicted. Eighteen structures are depicted on the southern portion. North: Symbols indicating orchards are depicted. East: Symbols indicating a vineyard are depicted. South: Symbols indicating orchards are depicted. West: Symbols indicating orchards and vineyards are depicted.
1972	1: 24,000	No significant changes noted for the Site or the vicinity.
1981	1:24,000	Site: No significant changes noted. North: Structures and roads are depicted. East: No significant changes noted. South: No significant changes noted. West: Tinting to indicate dense development and roads are depicted to the northwest.
2012	1:24,000	Individual structures are no longer depicted. New subdivision roads are depicted to the east, south, and southwest.

4.2.3 Oil and Gas Well Maps

Review of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) website showed that the Site is not located in a designated natural gas field. No DOGGR wells are located on or within at least one mile of the Site (DOGGR, 2020).

4.2.4 Aerial Photographs

Historical aerial photographs of the Site and general vicinity were compiled by EDR®. Photographs covering the years 1937, 1946, 1950, 1957, 1962, 1967, 1973, 1979, 1984, 1987, 1998, 2006, 2009, 2012, and 2016 were available for review (EDR®, 2020d). Copies of the aerial photographs compiled by EDR® with coverage of the Site are included in Appendix C. Table 2 notes the changes on the property and in the vicinity.

Table 2

Year	Scale	Observations
November 1937	1" = 500'	Area A: At least five structures are visible on the northwestern portion. The remainder is mostly planted with vineyards. Area B: At least 11 structures are visible on the west-central and central portions. Two ponds are visible to the southeast of the structures. The remainder is primarily planted with vineyards and orchards. North: Orchards are visible. East: Vineyards are visible. South: Vineyards and orchards are visible. West: South Peach Avenue followed by orchards to the west-northwest and seven structures and vacant land to the west-southwest.
April 1946	1" = 500'	Area A: Some of the fields have been replanted with the plants oriented in a different direction. Area B: At least one new structure is visible on the central portion. Some of the orchard trees have been removed from the southern portion. A new structure is visible on the southwestern portion. North: No significant changes noted. East: The previously noted vineyard has been removed. South: No significant changes noted. West: No significant changes noted.
January 1950	1" = 500'	Area A: No significant changes noted. Area B: At least three new structures are visible. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: No significant changes noted.

Table 2		
Year	**Scale**	**Observations**
August 1957	1" = 500'	Area A: No significant changes noted. Area B: The previously noted ponds on the southeastern portion are no longer visible. A new structure is visible on the southwestern portion. Ground markings on the southeastern portion indicate new field subdivisions. North: No significant changes noted. East: No significant changes noted. South: A new orchard has been planted. West: No significant changes noted.
August 1962	1" = 500'	Area A: An area has been planted with an orchard. Area B: Vineyards have been removed from the northern portion. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: No significant changes noted.
May 1967	1" = 500'	Area A: At least three new structures are visible. Area B: One structure has been removed. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: No significant changes noted.
May 1973	1" = 500'	Area A: No significant changes noted. Area B: The orchards and vineyards have been removed. Ground markings on the southeastern portion indicate new field subdivisions. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: Some of the previously noted structures have been removed.
September 1979	1" = 500'	Area A: Some structures have been expanded. Two new structures are visible. A new parking lot is visible on the western portion. Area B: The previously noted structures on the southwestern portion have been removed. North: The existing residential subdivision is undergoing development. East: No significant changes noted. South: No significant changes noted. West: The existing residential subdivision is visible to the west-northwest.

Table 2		
Year	**Scale**	**Observations**
June 1984	1" = 500'	Area A: No significant changes noted. Area B: All structures have been removed. Fallow land. North: No significant changes noted. East: No significant changes noted. South: The previously noted orchard has been removed. Fallow land. West: Some of the structures have been removed from the west-southwest area.
June 1987	1" = 500'	Area A: Three new structures and associated parking lots are visible on the southwestern portion. Area B: No significant changes noted. North: No significant changes noted. East: The existing subdivision to the east-northeast is visible. South: No significant changes noted. West: No significant changes noted.
1998	1" = 500'	Area A: Five new structures are visible on the northwestern portion. Area B: New crops are visible on the northeastern and southwestern portions. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: Additional structures have been removed from the west-southwest.
2006	1" = 500'	Area A: Several structures have been removed from the southwestern portion. The eastern portion is fallow land. Area B: Fallow land. North: No significant changes noted. East: Fallow land to east-southeast. South: The existing residential subdivision is undergoing development. West: All structures have been removed to the west-southwest. Fallow land.
2009	1" = 500'	Area A: No significant changes noted. Area B: No significant changes noted. North: No significant changes noted. East: The existing residential subdivision to the east-southeast is undergoing development. South: Residences are visible. West: No significant changes noted.

Table 2		
Year	**Scale**	**Observations**
2012	1" = 500'	Area A: Several structures have been removed from the northwestern portion. The existing community garden is visible. Area B: No significant changes noted. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: No significant changes noted.
2016	1" = 500'	Area A: Additional structures have been removed. Area B: No significant changes noted. North: No significant changes noted. East: No significant changes noted. South: No significant changes noted. West: No significant changes noted.

4.2.5 Ownership Records

Ownership information was obtained through ParcelQuest®, an on-line distributor of "Assessor-Direct property information throughout the State of California." The ownership entity for the Site was listed as "Fresno City of" (ParcelQuest®, 2020).

4.2.6 Building Department Records

The City of Fresno provided Building Department records for 2021 South Peach Avenue (Area A) and 2155 South Peach Avenue (Area B).

The document for 2021 South Peach Avenue consisted of 72 pages, which were dated between 1960 and 2015. A permit that was approved on June 3, 1964, for a new septic system, which had a not that the old system had been abandoned and backfilled. A permit dated November 5, 1984, indicated that the property was to be connected to the municipal water supply and sanitary sewer. In addition, permits were issued in September 2020 for the demolition of three structures after a fire had occurred in one.

The document for 2155 South Peach Avenue consisted of 63 pages, where were dated between 1960 and 2009. Building permits issued to Henrietta Rancho Products were dated between 1960 and 1981. On a permit approved on May 4, 1970, the size of the Henrietta Rancho Products lot was reported to be 30 acres. Four demolition permits were approved in 1981 for four buildings.

A 1952 Grant Deed was provided in the building department records for 2155 South Peach Avenue. According to the Grant Deed, dated September 25, 1952, the Henrietta Ranch Products Company acquired Area B from Mr. E. Pusey Cain. According to the Grant Deed, Mr. Cain had acquired the property on March 20, 1934.

The building permits provided by the City of Fresno are included in Appendix C.

4.2.7 Local Street Directories

Local street directories with coverage of the Site and adjoining properties were obtained from EDR® (EDR®, 2020e). These documents contain business listings based on street number identifiers. The historical address of 2021 South Peach Avenue, for Area A, was listed as US Agricultural Market Service and US Agricultural Research Station from at least 1958 to at least 2009. Fresno County APN 481-020-30T, in Area B, was addressed as 2155 South Peach Avenue. According to the City Directories, Henrietta Rancho Products fruit juices and concentrates was listed at 2155 South Peach Avenue from at least 1962 to at least 1980. A copy of the EDR® City Directory (EDR®, 2020e) is provided in Appendix C.

4.2.8 Zoning and Land Use Records

The Site use was not listed (ParcelQuest, 2020).

The eastern portion of the Site is located in an area of minimal flood hazard and the western portion is located within a 500-year regulatory floodplain, as designated by the Federal Emergency Management Agency (FEMA). The floodplain map is provided in Appendix C.

WKA reviewed data provided on the National Pipeline Mapping System website. No pipelines were identified within one-half mile of the Site (NPMS, 2020).

4.2.9 Other Historical Sources

WKA located a document regarding the history of the United States Department of Agriculture Agricultural Research Station (USDA ARS) on the USDA website. A copy of the history is provided in Appendix C. According to the history, the USDA ARS started in 1916 as an experimental vineyard. The USDA ARS was located on Area A. The document describes that activities conducted at the USDA ARS, including grape and stone fruit hybridizations. According to the document, Area B was acquired in 1989. Area B was reportedly vacant land and the USDA ARS began work to develop the property for use; however, due to the residential growth around the USDA ARS and the construction of an elementary school a half-mile south, the project was cancelled. The USDA ARS moved to Parlier, California in 1992.

4.2.10 Prior Assessments

No previous assessments were provided to WKA prior to the completion of this report.

4.3 Environmental Record Sources

4.3.1 Regulatory Agency Databases

EDR® was contacted to provide a summary of facilities listed on regulatory agency databases (EDR®, 2020a). Table 3 summarizes the researched ASTM required *Standard Environmental Record Sources*, as well as several *Additional Environmental Record Sources*, as defined in Sections 8.2.1 and 8.2.2 of the ASTM Standard. For additional reference, the EDR® Radius Map Report with GeoCheck is included in Appendix D.

Table 3

	EDR Listed Database	*ASTM E 1527-13 Search Distance*	No. of Facilities Listed (within Search Radius)
Federal			
Federal NPL Site List	*NPL*	1-mile	0
Federal Delisted NPL Site List	*Delisted NPL*	½-mile	0
Federal CERCLIS List	*CERCLIS*	½-mile	0
Federal CERCLIS NFRAP Site List	*CERCLIS NFRAP*	½-mile	1
Federal RCRA CORRACTS Facilities List	*CORRACTS*	1-mile	0
Federal RCRA Generators List:			
Small Quantity and Large Quantity Generators	*RCRA SQG*	Site & adjoining	1
	RCRA LQG		0
Landfills and Solid Waste Management Units	*RCRA TSDF*	½-mile	0
Federal Institutional Control / Engineering Control Registries	*US ENG Controls*	Site only	0
	US INST Controls		0
Federal ERNS List	*ERNS*	Site only	0
State			
State-equivalent NPL (Hist. Cal-Sites)	*Hist. Cal-Sites*	1-mile	0
State-equivalent CERCLIS	*RESPONSE*	½-mile	0
State Landfill and/or Solid Waste Disposal Site	*SWF/LF (SWIS)*	½-mile	0
	WMUDS/SWAT		0
State Leaking Underground Storage Tanks	*LUST- Reg 5 Geotracker*	½-mile	1
Tribal Leaking Underground Storage Tanks	*Indian LUST*	½-mile	0
State Registered Underground Storage Tanks	*UST*	Site & adjoining	1
Tribal Registered Underground Storage Tanks	*Indian UST*	Site & adjoining	0

Table 3			
	EDR Listed Database	*ASTM E 1527-13 Search Distance*	No. of Facilities Listed (within Search Radius)
State Registered Aboveground Storage Tanks	*AST*	Site & adjoining	0
State Institutional Control Registries	*DEED*	Site only	0
State Voluntary Cleanup Sites	*VCP*	½-mile	0
State Brownfield Sites	*US Brownfields*	½-mile	0
California Environmental Reporting System Hazardous Waste	*CERS Haz Waste*	¼-mile	0
Additional Environmental Record Sources			
Hazardous Waste & Substances Sites List	*CORTESE*	½-mile	1
DTSC EnviroStor (includes Cal-Sites)	*EnviroStor*	1-mile	2
SLIC	*SLIC - Reg 5*	½-mile	0
Cleaner Facilities	*Drycleaners*	¼-mile	0
HAZNET	*HAZNET*	¼-mile	0
Local - County			
Certified Unified Program Agency	*CUPA*	½-mile	3

Regulatory information reviewed concerning the Site, adjoining properties, and the nearest facility in each cardinal direction identified within its respective ASTM search distance is detailed below.

The USDA Agricultural Research Station facility, 2021 South Peach Avenue, was located on Area A. The facility is listed on the US EPA Facility Index System (FINDS), US EPA Enforcement and Compliance History Online, US EPA SEMS-Archive, RCRA Small Quantity Generator, the State Water Resources Control Board's (SWRCB) Leaking Underground Storage Tank (LUST) and the Fresno County Certified Unified Program Agency databases. WKA reviewed the listing for the facility on the US EPA ECHO website. According to the ECHO website, no violations were noted for the facility. WKA reviewed documents for the facility on the Fresno County Department of Public Health Environmental Health Document Portal.

According to a Central Valley Regional Water Quality Control Board Inspection Report, dated July 12, 1985, Mr. Timothy G. Souther visited the facility. Mr. Souther was told by USDA staff that mixing of chemicals was conducted adjacent to an irrigation well and that rinse water was applied to crops.

WKA reviewed a Twining Laboratories, Inc. (Twining) letter report, dated September 6, 1989, regarding the removal of a 500-gallon underground storage tank (UST) at the facility. According to Twining, the UST was rusted and pitted, but no holes were observed. Twining collected one

soil sample from two feet below the bottom of the UST for analysis of benzene, toluene, ethylbenzene, xylenes, and TPH as gasoline. Laboratory analytical results indicated that benzene, toluene, ethylbenzene, and xylenes were not present above laboratory reporting limits. A TPH as gasoline concentration of 1.4 milligrams per kilogram was detected. According to a Fresno County Department of Health letter, dated September 18, 1989, the facility received a no further action status.

WKA reviewed a Transmittal of Data Letter, dated April 23, 1990, prepared by ETS Environmental & Associates (ETS) regarding a soil sample collected from the excavation of a 250-gallon UST at the facility. According to ETS, the soil samples was submitted to a laboratory for analysis of total petroleum hydrocarbons (TPH) as gasoline, benzene, toluene, xylenes, and ethylbenzene. The laboratory analytical report of the soil sample indicated that petroleum hydrocarbons were not present above the laboratory reporting limit. According to a Fresno County Department of Health letter, dated November 14, 1990, the facility received a no further action status.

WKA reviewed a Soil Sampling and Chemical Analysis Report, dated June 12, 1995, prepared by Krazan & Associates, Inc. (Krazan) regarding the removal of five heating-oil USTs that were located in Area A. According to Krazan, two of the USTs were co-located. One soil sample was collected beneath the co-located USTs and an additional soil sample was collected from the excavations of the other three USTs. The four soil samples were submitted to a laboratory for analysis of TPH as diesel and total recoverable petroleum hydrocarbons (TRPH). Laboratory analytical results indicated that petroleum hydrocarbons were not present in soils beneath the co-located USTs. TPH as diesel was detected in soils beneath the other USTs at concentrations of 4.2 milligrams per kilogram (mg/kg), 120 mg/kg, and 25,000 mg/kg. One of the samples had a TRPH concentration of 17,000 mg/kg, which was the same location as the highest concentration of TPH as diesel. Krazan recommended that additional assessment the USTs with highest concentrations of TPH as diesel and TRPH be conducted. Krazan's map indicates that two aboveground storage tanks were also present at the facility.

WKA reviewed a Soil Excavation and Remediation report, dated March 27, 1996, prepared by Krazan regarding the USTs with the highest concentrations of TPH as diesel and TRPH, USTs #4 and #5. Krazan noted that the USTs were located adjacent to buildings, which limited the excavations. Krazan reported that 15 cubic yards of petroleum impacted soils were excavated from the two UST locations. Krazan reported that a structure to the west of UST #4 prevented petroleum hydrocarbon impacted soils from being excavated. Laboratory analysis of the sidewall samples indicated concentration of TPH as diesel of 2,400 mg/kg and TRPH of 3,000 mg/kg remained to the west of UST #4. Low concentrations of TPH as diesel, 1.1 mg/kg to 6.5 mg/kg, were left beneath the building located adjacent to UST #5. A copy of the Soil Excavation and Remediation report is provided in Appendix C.

According to a Fresno County Health Services Agency letter, dated April 4, 1996, the facility received a no further action status regarding the removal of the five aboveground storage tanks. The letter did not mention the petroleum hydrocarbon impacted soils that remained in place.

WKA located information regarding dry wells that were used for disposal at the facility in the Fresno County Department of Public Health Environmental Health Document Portal. According to a Central Valley Regional Water Quality Control Board (CVRWQCB) Review of Work Plan for the Geotechnical Investigation, USDA Horticultural Field Station, Fresno, Fresno County, eight abandoned dry wells were at the facility. The dry wells were used for the disposal of sanitary and other waste waters, including laboratory wastes containing hazardous constituents. According to a US EPA Region IX letter, dated November 2, 1998, the US EPA re-evaluated a September 1991 Geotechnical Report for the facility. According to the letter, contamination was identified at one of the dry wells at the facility (dry well #3); however, it was noted that the dry well was no longer used and had been plugged. The letter noted that "contaminants were detected in low concentrations and have low groundwater mobility." The letter described that impacts were not detected in soil samples collected 45 feet below ground surface and that groundwater was 70 feet below ground surface. The US EPA determined that no further assessment of the dry well #3 was warranted. A copy of the US EPA letter is provided in Appendix C.

The USDA Agricultural Research Station facility, 2221 South Peach Avenue, was located at the Site within Area B. The facility was listed on the Fresno County Certified Unified Program Agency database. According to a Fresno County Department of Health Hazardous Materials/Underground Storage Tanks Telephone Call Record, dated March 3, 1990, the USDA had recently acquired the facility (Area B) and hit an underground storage tank (UST) during grading activities. WKA reviewed a Twining Laboratories, Inc. (Twining) letter report, dated March 22, 1990, regarding the UST. Twining stated that they collected a soil samples from the excavation of a 550-gallon UST several days after it had been removed. The soil sample was collected approximately nine feet below ground surface and three feet below the reported bottom of the tank. The soil samples was submitted to a laboratory for analysis of benzene, toluene, ethylbenzene, xylenes, TPH as gasoline, and TPH as diesel. Laboratory analytical results indicated that all analytes were below their laboratory reporting limits. According to a Fresno County Department of Health letter, dated March 27, 1990, the facility receive a no further action status. Based on the information reviewed, this UST has not impacted the Site.

4.3.2 Preliminary Screen for Vapor Encroachment Conditions

WKA conducted a preliminary screening for VEC beneath the Site using the Tier 1 vapor encroachment screening evaluation[1]. The Tier I screening included performing a *Search Distance Test* to identify if there are any known or suspect contaminated properties surrounding or upgradient of the Site within specific search radii, and a *Chemicals of Concern (COC) Test* (for those known or suspect contaminated properties identified within the *Search Distance Test*) to evaluate whether or not COC are likely to be present. The Vapor Encroachment Screening Matrix is included in Appendix E.

Based on the completion of the VEC-screening matrix, a VEC can be ruled out because a VEC does not or is not likely to exist.

4.3.3 Environmental Lien Search

According to a December 10, 2020, Environmental Lien Search Report prepared by Security First Title Resource, no environmental liens were recorded for the Site. However, an AUL was recorded on the deed stating that the Site must be used for a public purpose in perpetuity (SFTR 2020). A copy of the Environmental Lien Search Report is included in Appendix C.

[1] The Preliminary Screen for Vapor Encroachment Conditions was based on the guidelines presented in the ASTM *E 2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Data Gaps

The time intervals between the Standard Historical Sources (i.e., topographic maps, aerial photographs, other historical sources) exceeded the ASTM minimum five-year period. However, the use of the Site appears unchanged within the time gaps, and therefore, research of the Site use during the time gaps is not required by the ASTM Standard (Refer to *Section 8.3.2.1 – Intervals* of the ASTM E 1527-13 standard).

It is the opinion of WKA that no significant data gaps were identified during the preparation of this report that affects the ability of the Environmental Professional to identify RECs on the Site.

5.2 Conclusions

- The historical land use research dating back to the early 1900s revealed that Area A was developed with structures and vineyards by 1937. Sixteen structures were present on the western portion from at least 1937 to 2020; however, eight of the structures were constructed after 1983. The areas outside of the structures were planted with vineyards from at least 1937 to at least 1998. A community garden has been present on the southern portion since at least 2012.
- Area A was occupied the United States Department of Agriculture Agricultural Research Station (USDA ARS) from at least 1937 to 1992.
- Between 1989 and 1995, seven underground storage tanks (USTs) were removed from Area A. The UTSs were located adjacent to structures. Petroleum hydrocarbon impacted soils were left in-place beneath two structures. See Section 4.3.1 for additional information.
- The historical land use research dating back to the early 1900s revealed that Area B was developed with structures, vineyards, orchards, and ponds by 1937. At least 15 structures were located on the western and west-central portions of Area B from at least 1937 to at least 1979. Two structures were located on the southwestern portion from at least 1957 to at least 1973. All structures were removed from Area B by 1984. Areas outside of the structures were planted with vineyards and orchards or developed with ponds between 1937 and 1979.
- City directory reports indicated that Henrietta Fruit juices and concentrates operated at 2155 South Peach Avenue from at least 1962 to at least 1980. 2155 South Peach Avenue is associated with one of the APNs in Area B. Building department records

indicate that permits were issued to Henrietta Rancho Products between 1960 and 1981. The permits issued in 1981 were for the demolition of structures.

- The City of Fresno provided a Grant Deed, dated September 25, 1952, to WKA. According to the Grant Deed, the Henrietta Ranch Products Company acquired Area B from Mr. E. Pusey Cain. According to the Grant Deed, Mr. Cain had acquired the property on March 20, 1934.
- Notations on historical topographic maps indicate that a "US Experimental Station" operated on Area B from at least 1946 to 1981. WKA did not locate information regarding the operations of a US Experimental Station.
- According to a history of the USDA ARS located on the USDA website, Area B was acquired by the USDA in 1989.
- One irrigation well was observed on the northwestern portion of Area A. Two irrigation wells were observed on the central portion of Area B.
- According to environmental records, dry wells were used for the disposal of sanitary and laboratory waste on Area A until 1985. The dry wells have been plugged and abandoned. Assessment of the dry wells indicated low concentrations of chemicals were present around one of the wells. The United States Environmental Protection Agency (US EPA) reviewed the assessment report for the dry wells and determined that no further action was warranted. See Section 4.3.1 for additional information.
- According to an environmental lien search, no environmental liens are associated with the Site. However, an activity use limitation (AUL) has been recorded on the deed that requires that the Site be used for public purposes.
- Building maintenance activities may have included the application of persistent pesticides (termiticides) around the foundation of the former structures to prevent pest invasions, such as termites.
- Given the age of the historical development of the Site, it is likely that lead-based paints were used in the construction and/or maintenance of the former Site buildings.
- Given the documentation reviewed concerning the agency listings for neighboring facilities, none of the facilities reviewed is likely to have a negative impact on the Site.
- Based on the completion of the vapor encroachment condition (VEC) screening matrix, WKA concludes a VEC can be ruled out because a VEC does not or is not likely to exist.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 for the Southeast Fresno Regional Park. Any exceptions to, or deletions from, this practice are described in Section 5.4 of this report. This assessment has revealed no evidence of RECs in connection with the Site except the following:

- On-site concerns were noted from the mixing of agricultural chemicals adjacent to irrigation wells as reported by a USDA staff member in 1985.
- On-site concerns were noted from the historical agriculture activities including the raising of vineyards and orchards and the potential for residues of historically applied persistent pesticides.
- On-site concerns were noted from the historical presence of structures on Area A from at least 1937 to 2020 and on Area B from at least 1937 to at least 1979 and the potential for residues of historically applied persistent pesticides (termiticides) and lead from lead-based paint to be present in surface soils in the vicinity of the structures. The concerns are noted from structures that were constructed before 1975 for lead and before 1988 for persistent pesticides.
- On-site concerns were noted regarding the petroleum hydrocarbon impacted soils that were left in-place beneath two structures in Area A after the removal of USTs.

5.3 Recommendations

Based on the conclusions presented and the documentation contained herein, WKA makes the following recommendations:

- Collecting soil samples to evaluate for the potential presence of organochlorine pesticides, and arsenic related to the past agricultural operations at the Site.
- Collecting soil samples from the vicinity of the historical structures to evaluate the potential presence of termiticides or lead from lead-based paint.
- The irrigation wells and any other wells or septic systems that are uncovered during development activities should be abandoned in accordance with local, state, and federal regulations.
- If the City of Fresno provides additional information that would affect the conclusions of this report, WKA should be provided the opportunity to revise the report.
- If the 1991 Geotechnical Report that investigated the dry wells can be located, it should be reviewed to determine if additional assessment is warranted.

- If soils exhibiting evidence of petroleum hydrocarbon impacts, such as staining or odors, are uncovered during development activities, an environmental consultant should be called to evaluate the soils.
- No historical assessments or information regarding the operations on Area B were located by WKA. One UST was discovered during grading operations that was removed. It is possible that additional USTs exist on the property. If USTs are discovered during future assessment activities, an environmental consultant should be called to assist with removal and assessment of the UST.
- If any fill material is discovered during future subsurface disturbance activities, the origin of the material should be determined. If the fill material origin is undetermined or it originated from a property with RECs, the fill material should be evaluated for potential impacts.

5.4 Exceptions and/or Deletions

No exceptions or deletions from the ASTM E 1527-13 standard were made during the performance of this ESA.

5.5 Additional Services

Non-scope considerations, such as assessment for naturally occurring asbestos (NOA), wetlands evaluation, indoor air quality, laboratory testing of the soils and groundwater beneath the Site for environmental contaminants (such as agricultural-related pesticides, termiticides, polychlorinated biphenyls [PCBs], or arsenic and lead), and assessments for asbestos containing materials and lead-based paint were not included or requested as part of this ESA. Additionally, this ESA included conducting a Tier 1 vapor encroachment screening in accordance with the ASTM *E 2600-15 Vapor Encroachment Screening on Property Involved in Real Estate Transactions.*

6.0 LIMITATIONS

The statements and conclusions in this report are based upon the scope of work described above and on observations made only on the date of the field reconnaissance, December 9, 2020. Work was performed using a degree of skill consistent with that of competent environmental consulting firms performing similar work in the area. Information regarding the Site that is *publicly available* and *practically reviewable,* as described in the ASTM standard, was obtained. Additional research or receipt of information regarding the Site that was not disclosed or available to WKA during this assessment may result in revision of the conclusions. The conclusions in this report should be reevaluated if site conditions change. No recommendation is made as to the suitability of the Site for any purpose. The results of this assessment do not preclude the possibility that materials currently or in the future defined as hazardous are present on the Site, nor do the results of this work guarantee the potability of groundwater beneath the Site. This report is applicable only to the investigated Site and should not be used for any other property. No warranty is expressed or implied.

This report is viable for one year from the publication date of the report provided the following components are updated within 180 days of the date of purchase or (for transactions not involving an acquisition) the date of the intended transaction:

- Interviews with current owners/occupants and/or in order to identify changes in Site conditions or uses since the publication date of this report
- Searches for recorded environmental cleanup liens
- Visual inspection of the Site and of adjoining properties with emphasis on changes in conditions or uses since the publication date of this report
- A current review of federal, state, tribal and county databases
- The declaration by the environmental professional responsible for the assessment.

Environmental Site Assessments completed more than one year prior to the date of purchase must be reviewed and updated in order for the *Environmental Site Assessment* to be considered valid per Section 4.6 (*Continued Viability of Environmental Site Assessment*), and Sections 4.7 and 8.4 (*Prior Assessment Usage*) of the ASTM E 1527-13 Standard.

NMM:KMB:mr
H:/dept3/12987.01 - Phase I ESA Southeast Fresno Regional Park

7.0 REFERENCES

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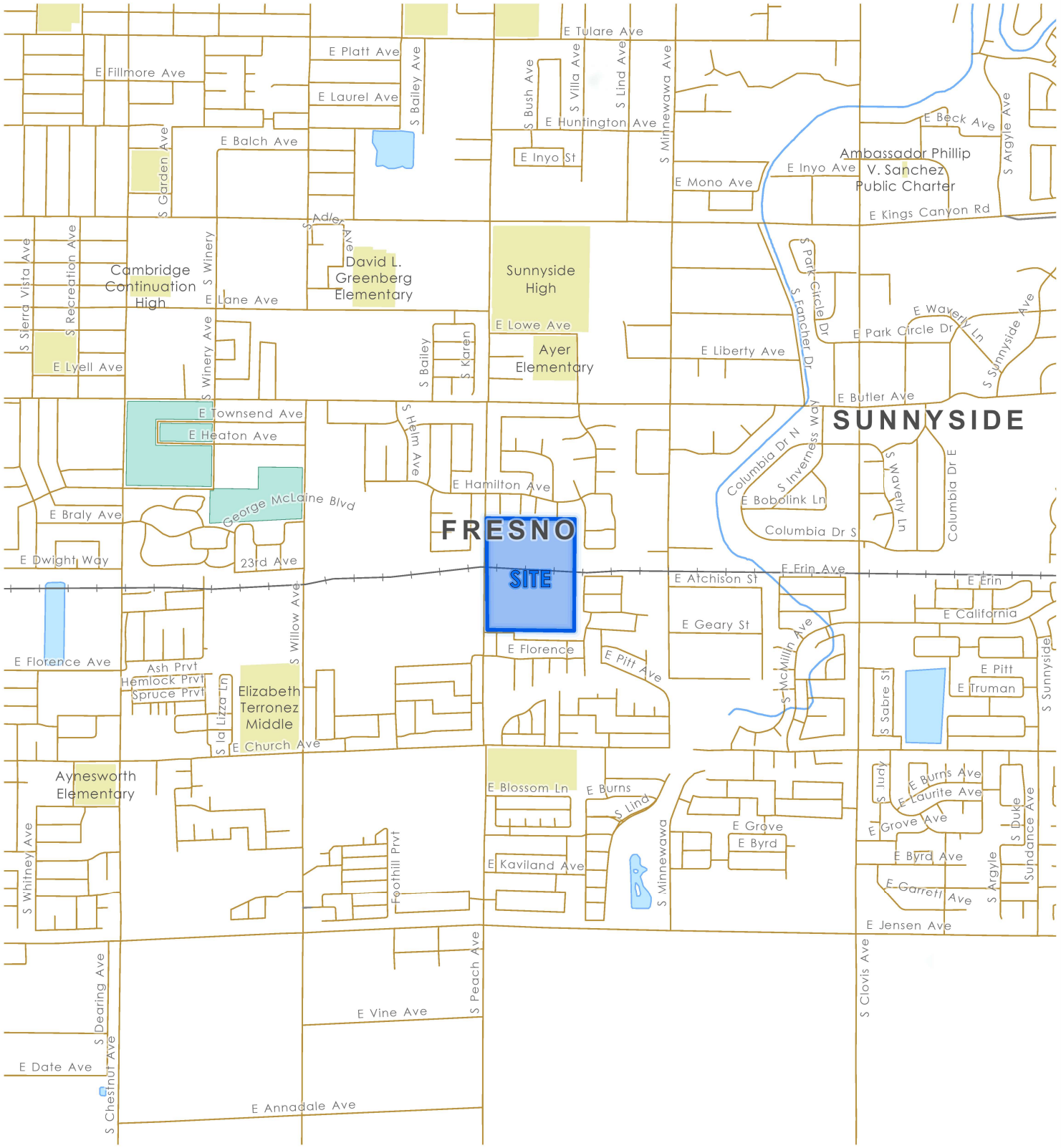
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FIGURES



Spatial Data provided by Esri, NOAA, and USGS.
Projection: NAD 1983 2011 StatePlane California IV FIPS 0404 Ft US

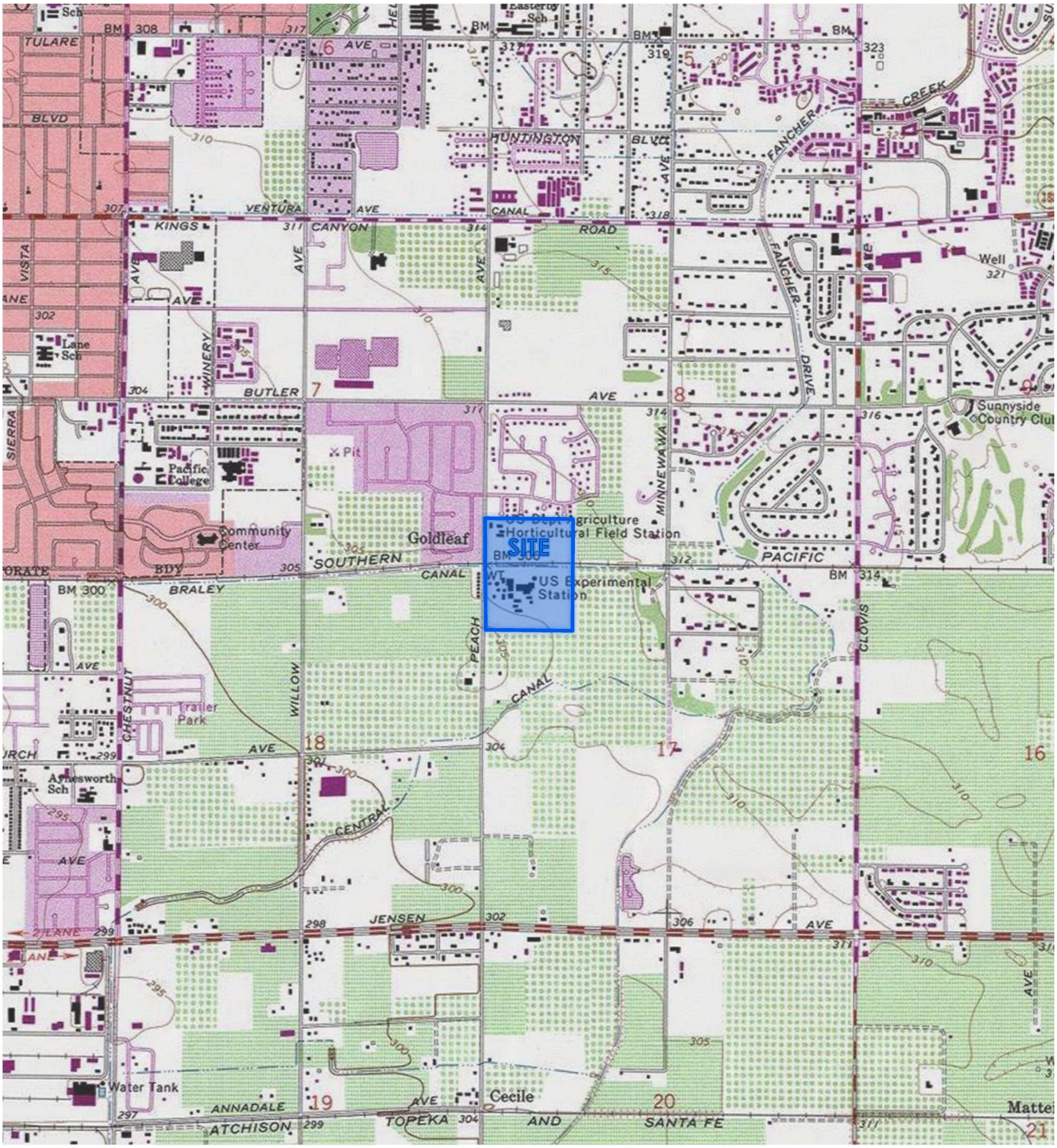
WallaceKuhl & ASSOCIATES

VICINITY MAP

SOUTHEAST FRESNO REGIONAL PARK

Fresno, California

FIGURE	1
DRAWN BY	RWO
CHECKED BY	NMM
PROJECT MGR	KMB
DATE	12/2020
WKA NO.	12987.01



Topographic Basemap Adapted from the USGS 7.5' Digital Map Series
Projection: NAD 1983 2011 StatePlane California IV FIPS 0404 Ft US

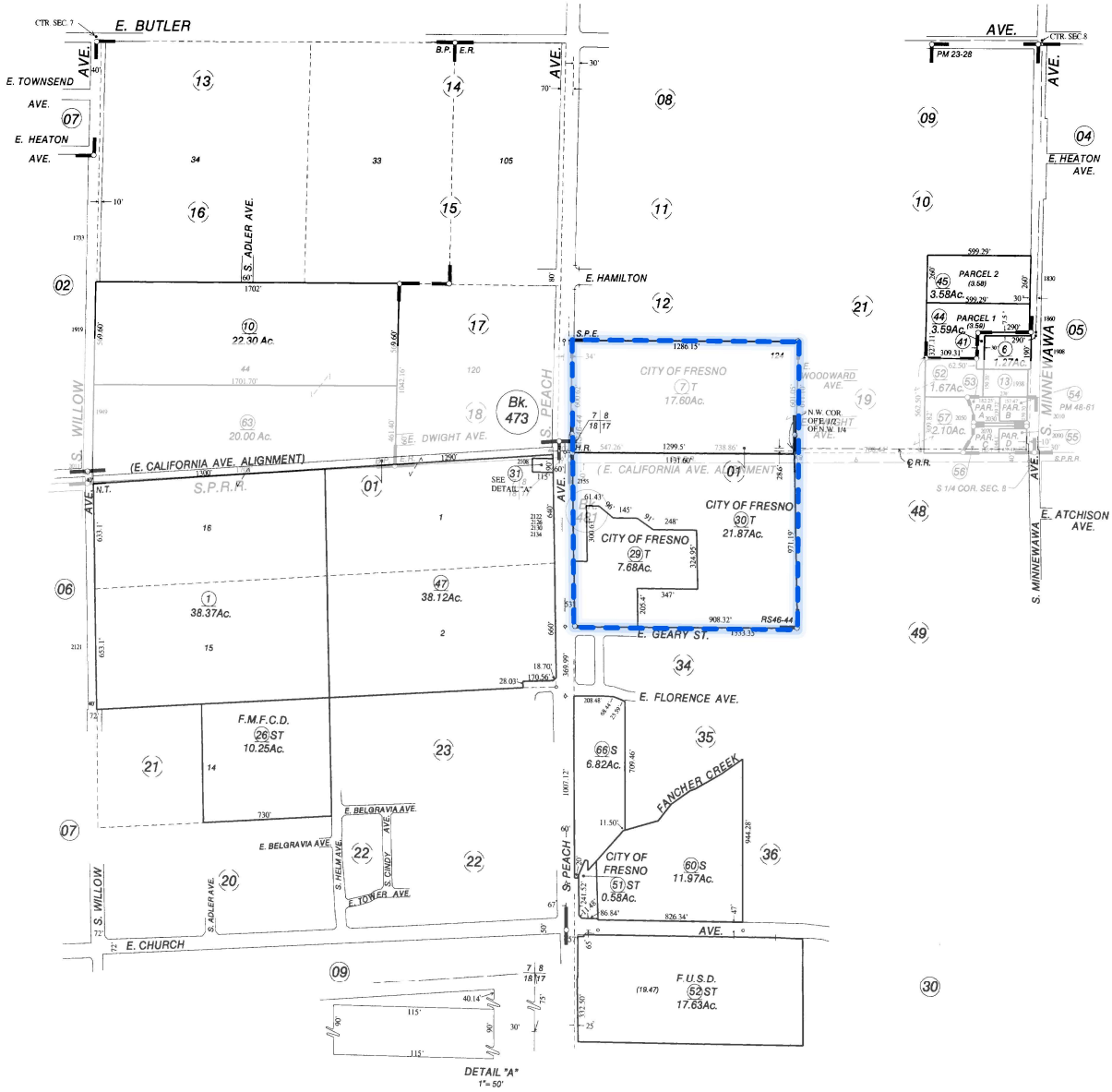
WallaceKuhl & ASSOCIATES

TOPOGRAPHIC MAP

SOUTHEAST FRESNO REGIONAL PARK

Fresno, California

FIGURE	2
DRAWN BY	RWO
CHECKED BY	NMM
PROJECT MGR	KMB
DATE	12/2020
WKA NO.	12987.01



Approximate Site Boundary

N

0 500 1,000

Feet

Parcel Maps provided by the County of Fresno Assessor's Office. Book 473, page 3 and Book 481, page 2.
Projection: NAD 1983 2011 StatePlane California IV FIPS 0404 Ft US

WallaceKuhl & ASSOCIATES

PARCEL MAP

SOUTHEAST FRESNO REGIONAL PARK

Fresno, California

FIGURE	3
DRAWN BY	RWO
CHECKED BY	NMM
PROJECT MGR	KMB
DATE	12/2020
WKA NO.	12987.01



Approximate Site Boundary

N

0 150 300

Feet

Aerial imagery provided by Esri.
Projection: NAD 1983 2011 StatePlane California IV FIPS 0404 Ft US

WallaceKuhl & ASSOCIATES

AERIAL SITE MAP

SOUTHEAST FRESNO REGIONAL PARK

Fresno, California

FIGURE	4
DRAWN BY	RWO
CHECKED BY	NMM
PROJECT MGR	KMB
DATE	12/2020
WKA NO.	12987.01



Looking northeast at the concrete pad and wood frame on the northwestern portion of Area A.



Looking at a former structure located on Area A.



Looking at an irrigation well on the northern portion of Area A.



Looking at a pit with a sewer stub on the western portion of Area A.

Wallace Kuhl & Associates

COLOR PHOTOGRAPHS

SOUTHEAST FRESNO REGIONAL PARK PROPERTY

Fresno, California

FIGURE	5a
DRAWN BY	NMM
CHECKED BY	KMB
PROJECT MGR	KMB
DATE	12/20

WKA NO. 12987.01



Looking north at the eastern portion of Area A.



Looking northwest at the general view of the eastern portion of Area A.



Looking at the community garden on Area A.



Looking at the storage shed and area of nuisance dumping located to the west of the community garden.

Wallace Kuhl & Associates

COLOR PHOTOGRAPHS

SOUTHEAST FRESNO REGIONAL PARK PROPERTY

Fresno, California

FIGURE	5b
DRAWN BY	NMM
CHECKED BY	KMB
PROJECT MGR	KMB
DATE	12/20

WKA NO. 12987.01



Looking at asphalt and concrete surfaces on the southwestern portion of Area A.



Looking at a concrete pad located on the southwestern portion of Area A.



Looking east at the general view of Area B.



Looking at the largest fenced area located on the western portion of Area B.

Wallace Kuhl & Associates

COLOR PHOTOGRAPHS

SOUTHEAST FRESNO REGIONAL PARK PROPERTY

Fresno, California

FIGURE	5c
DRAWN BY	NMM
CHECKED BY	KMB
PROJECT MGR	KMB
DATE	12/20

WKA NO. 12987.01



Looking at the concrete pad and bollards located within the largest fenced area in Area B.



Looking south at a small fenced area near the largest fenced area.



Looking at an irrigation well within the second fenced area located on Area B.



Looking northeast at the general view of the eastern portion of Area B.

Wallace Kuhl & Associates

COLOR PHOTOGRAPHS

SOUTHEAST FRESNO REGIONAL PARK PROPERTY

Fresno, California

FIGURE	5d
DRAWN BY	NMM
CHECKED BY	KMB
PROJECT MGR	KMB
DATE	12/20

WKA NO. 12987.01



Looking south at the third fenced area located on Area B.



Looking at concrete rubble located adjacent to the third fenced area on Area B.



Looking at the irrigation well located within the third fenced area on Area B.



Looking at a concrete pad located to the southeast of the third fenced area on Area B.

Wallace Kuhl & Associates

COLOR PHOTOGRAPHS

SOUTHEAST FRESNO REGIONAL PARK PROPERTY

Fresno, California

FIGURE	5e
DRAWN BY	NMM
CHECKED BY	KMB
PROJECT MGR	KMB
DATE	12/20

WKA NO. 12987.01

APPENDIX A
RESUMES

NANCY M. MALARET

PROJECT ENVIRONMENTAL SCIENTIST

Ms. Malaret has been employed in the environmental field since 2003. She graduated from University of California, Davis with a degree in Hydrologic Science.

Ms. Malaret worked for the Florida Department of Health for four years. She assisted with the coordination of sampling potable water wells throughout the state of Florida. Ms. Malaret used GIS mapping techniques to identify private potable wells located near commercial and industrial facilities that may have contaminated the groundwater. She coordinated the sampling of the wells and the analysis of water samples collected. She worked with the Florida Department of Environmental Protection to place filters on the private wells with contaminated water. Ms. Malaret also worked with the Health Assessment Team at the Florida Department of Health. She conducted human health risk assessments based on groundwater and soil data collected during contamination assessments of industrial facilities. Ms. Malaret used the Agency for Toxic Substances and Disease Registry's Public Health Assessment Guidelines to evaluate resident's risk of illness from exposure to contaminated groundwater and surface soils. Ms. Malaret used Risk Assistant software to determine dose estimates and compared the results with toxicological studies. Ms. Malaret's human health risk assessments focused on sites with Volatile Organic Compounds, Semi-volatile Organic Compounds, and metals contamination.

Ms. Malaret has six years of experience in due diligence. Her Phase I Environmental Site Assessment experience includes wooded, rural, and urban properties. Her investigations have involved multiple parcel sites with extensive history, large-scale residential subdivisions, office buildings, gasoline stations, dry cleaners, and heavy equipment manufacturing and repair facilities. Ms. Malaret has conducted multiple corridor assessments along roadways being prepared for expansion or improvements. She also conducted a Hazardous, Toxic, and Radioactive Waste Assessment for the United States Army Corps of Engineers on a 20-mile stretch of the St. Johns River in Jacksonville, Florida. Ms. Malaret conducted soil and groundwater sampling associated with Phase II Environmental Site Assessments. Ms. Malaret coordinated long-term groundwater sampling events for sites with residual petroleum contamination.

Ms. Malaret has worked with communities impacted by contamination, local, state, and federal government agencies, banks and developers.

Moody Property, Vacaville, CA: Ms. Malaret managed the Phase I Environmental Site Assessment of a 38.5-acre property of undeveloped land located in Vacaville to support the redevelopment of the property into a residential development.

Woodmere Property, Folsom, CA: Ms. Malaret managed the Phase I Environmental Site Assessment of a 2.5-acre property developed with an office building. Historical research of the property included evaluating former mining operations at the site.

Mercantile Property, Rancho Cordova, CA: Ms. Malaret managed the Phase I Environmental Site Assessment of a 4.1-acre property developed with a commercial building. Evaluation of regulatory facilities within the site vicinity included the former Aerojet Facility.

HIGHER EDUCATION:

University of California, Davis
Bachelor of Science, Hydrologic Science (1999)

KURT M. BALASEK

SENIOR HYDROGEOLOGIST/DIRECTOR OF ENVIRONMENTAL SERVICES

Mr. Balasek has provided a leadership role in hydrogeologic and environmental consulting in the Western US. since 1989. His experience includes, residential and commercial land development, litigation support, permitting, regulatory compliance and technical team building. Mr. Balasek and his team have conducted a wide range of impacted soil and groundwater investigations, mine location and reclamation activities, water resource evaluations and conjunctive use studies. Mr. Balasek has supported municipal efforts to redevelop blighted neighborhoods using private and federal funding and has prepared successful grant applications for EPA Brownfield funding. Mr. Balasek has facilitated public stakeholder processes, organized public comments and used the information gathered from these efforts to prioritize neighborhood and regional site investigations and remedial activities.

Mr. Balasek specializes in unique approaches to problem solving and leverages nearly 30 years of regulatory relationships to assist clients facing enforcement actions. Mr. Balasek has saved his clients hundreds of thousands of dollars in reduced fines, monitoring requirements or realized project efficiencies.

SELECTED PROJECT EXPERIENCE

Stockton Worknet, Stockton, CA: Project was conducted for the City of Stockton Redevelopment Agency and involved delineation, removal and disposal for hydrocarbon and lead-contaminated soil discovered during a construction project. The project also involved a component of public outreach because a children's museum was located immediately adjacent to the site.

Hayden Hill Mine, Lassen, CA: Project consisted of third party review of mine closure plan for Lassen County. Provided technical assistance to Lassen County Planning Commission to facilitate permanent closure of large open pit mine.

Willow Creek, Folsom, CA: Project involved site investigation and subsequent removal of petroleum hydrocarbon-contaminated soil to facilitate private development of commercial property. Under my direction, I facilitated the investigation, excavation and coordination of closure petitions.

City of West Sacramento, West Sacramento, CA: Multiple Projects. These projects involved initial site evaluation of several hundred individual sites for the redevelopment of West Sacramento. Subsequent work involved site investigation and remediation of several sites under U.S. EPA Grants. Provided technical assistance to City staff and collaborated with them to best utilize the public funds and coordinate public outreach. Provided emergency consultation related to peroxide release at city water treatment plant and provides on-going management and monitoring of groundwater pump and treat system at the Port of Sacramento

Rominger Property, Winters, CA (on-going): This project involves detailed site investigation, hydrogeologic analysis and evaluation, and the selection of appropriate remediation technologies for a large plume of (MTBE) contamination on an Ag-industrial site. Project involvement included client and regulatory interaction.

HIGHER EDUCATION:

University of California, Santa Barbara
BA, Geological Sciences (1986)
California State University, Chico
MS, Hydrogeology/Hydrology (1990)

PROFESSIONAL REGISTRATIONS:

Professional Geologist No. 6162, CA
Certified Hydrogeologist No. 299, CA
Qualified Storm Water Developer
California Engineering Contractor A-Haz, C-57,

APPENDIX B

ASTM E 1527-13 User Questionnaire
and Helpful Documents Checklist

HELPFUL DOCUMENTS

SOUTHEAST FRESNO REGIONAL PARK

Are you aware of any of the below-listed reports, as they relate specifically to the property?

_____ Yes _X_ No (if yes, please check all that apply):

- ❑ Environmental Site Assessment reports (Phase I ESA, Asbestos sampling reports, etc.)
- ❑ Environmental Compliance Audit reports
- ❑ Geotechnical Reports
- ❑ Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)
- ❑ Registrations for underground or above ground storage tanks
- ❑ Registrations for underground injection systems
- ❑ Material Safety Data Sheets
- ❑ Community Right-to-Know plan
- ❑ Safety Plan
- ❑ Reports regarding Hydrogeologic conditions on the property or surrounding area
- ❑ Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
- ❑ Hazardous waste generator notices, or reports
- ❑ Environmental Impact Reports (draft and/or final)
- ❑ Risk assessments
- ❑ Recorded AULs

If any of the above listed documents are available, will copies be provided to WKA for review?

_____ Yes ____ No

Completed by Josh Smith

Date: 11/24/2020

Title: Associate Planner

Signature: Josh Smith

E 1527-13 USER QUESTIONNAIRE
SOUTHEAST FRESNO REGIONAL PARK

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*"), the *user*[2] must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Have you performed a search for environmental cleanup liens and AULs, as described under *User Obligations* in the attached proposal, for the *property*?

No

(2.) Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

No

(3.) Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

No

(4.) As the *user* of the report, 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

(5.) 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 on the *property*?

Don't know

(6.) 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? For example, as user,

No

(a.) Do you know the past uses of the *property*? If so, what were they?

No

(b.) What, if any, specific chemicals are present or once were present at the *property*?

N/A

[2] User, as defined in the ASTM Standard is "the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice as outline in Section 6 [of the ASTM Standard]."

Questions 6 continued:

(c.) What, if any, spills or other chemical releases have taken place at the *property*?

N/A

(d.) What, if any, environmental cleanups have taken place at the *property*?

N/A

(7.) As the *user* of this ESA, based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?

Don't know

COMPLETION:

I have completed this User Questionnaire to the best of my knowledge and provided all information to the environmental professional as of the following date:

Completed by: Josh Smith

Date: 11/24/2020

Title: Associate Planner

Signature: Josh Smith Joshua Smith

Phone Number: 916-805-1281

Relationship to the Site (i.e., owner, lender, property manager): N/A

APPENDIX C

Supporting Documents

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eastern Fresno Area, California



November 30, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:3,130 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

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 Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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: Eastern Fresno Area, California
Survey Area Data: Version 13, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 28, 2020—Mar 5, 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Hc	Hanford sandy loam	3.4	6.9%
Rc	Ramona loam	42.9	86.5%
Re	Ramona loam, hard substratum	3.3	6.6%
Totals for Area of Interest		**49.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eastern Fresno Area, California

Hc—Hanford sandy loam

Map Unit Setting

National map unit symbol: hl5f
Elevation: 200 to 500 feet
Mean annual precipitation: 8 to 15 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 275 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Hanford and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hanford

Setting

Landform: Alluvial fans, flood plains
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope, rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

Ap - 0 to 16 inches: sandy loam
C - 16 to 72 inches: sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 10 percent
Landform: Alluvial fans, flood plains
Hydric soil rating: No

Unnamed, channeled

Percent of map unit: 5 percent
Landform: Channels on alluvial fans
Hydric soil rating: No

Rc—Ramona loam

Map Unit Setting

National map unit symbol: hl8m
Elevation: 250 to 500 feet
Mean annual precipitation: 9 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 225 to 275 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Ramona and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ramona

Setting

Landform: Stream terraces, alluvial fans
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

A - 0 to 12 inches: loam
BAt - 12 to 24 inches: loam
Bt - 24 to 38 inches: clay loam
C - 38 to 60 inches: coarse sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 1

Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Unnamed, fine sandy loam
Percent of map unit: 10 percent
Landform: Alluvial fans, stream terraces
Hydric soil rating: No

Unnamed, clay loam
Percent of map unit: 5 percent
Landform: Alluvial fans, stream terraces
Hydric soil rating: No

Unnamed, gently sloping
Percent of map unit: 5 percent
Landform: Alluvial fans, stream terraces
Hydric soil rating: No

Re—Ramona loam, hard substratum

Map Unit Setting
National map unit symbol: hl8p
Elevation: 250 to 500 feet
Mean annual precipitation: 9 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 225 to 275 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition
Ramona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ramona

Setting
Landform: Stream terraces, alluvial fans
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile
A - 0 to 12 inches: loam
BAt - 12 to 24 inches: loam
Bt - 24 to 36 inches: clay loam
Bqm - 36 to 53 inches: cemented

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 24 to 60 inches to duripan
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Ramona

Percent of map unit: 10 percent
Landform: Stream terraces, alluvial fans
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Unnamed

Percent of map unit: 5 percent
Landform: Alluvial fans, stream terraces
Hydric soil rating: No

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Southeast Fresno Regional Park
2155 South Peach Avenue
Fresno, CA 93727

Inquiry Number: 6281215.3
November 25, 2020

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/25/20

Site Name:

Southeast Fresno Regional Pa
2155 South Peach Avenue
Fresno, CA 93727
EDR Inquiry # 6281215.3

Client Name:

Wallace - Kuhl & Associates
3050 Industrial Boulevard
West Sacramento, CA 95691
Contact: Nancy Malaret

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PO # NA

Project 12987.01

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Southeast Fresno Regional Park
2155 South Peach Avenue
Fresno, CA 93727

Inquiry Number: 6281215.4
November 25, 2020

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

11/25/20

Site Name:

Southeast Fresno Regional Pa
2155 South Peach Avenue
Fresno, CA 93727
EDR Inquiry # 6281215.4

Client Name:

Wallace - Kuhl & Associates
3050 Industrial Boulevard
West Sacramento, CA 95691
Contact: Nancy Malaret

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Search Results:

P.O.# NA
Project: 12987.01

Coordinates:

Latitude:	36.720995 36° 43' 16" North
Longitude:	-119.715799 -119° 42' 57" West
UTM Zone:	Zone 11 North
UTM X Meters:	257452.75
UTM Y Meters:	4067360.68
Elevation:	309.00' above sea level

Maps Provided:

2012
1981
1972
1964
1948
1947
1946
1923

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Malaga
2012
7.5-minute, 24000

1981 Source Sheets



Malaga
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Malaga
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets



Malaga
1964
7.5-minute, 24000
Aerial Photo Revised 1962

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1948 Source Sheets



MALAGA
1948
7.5-minute, 25000

1947 Source Sheets



Malaga
1947
7.5-minute, 24000

1946 Source Sheets



Malaga
1946
7.5-minute, 24000

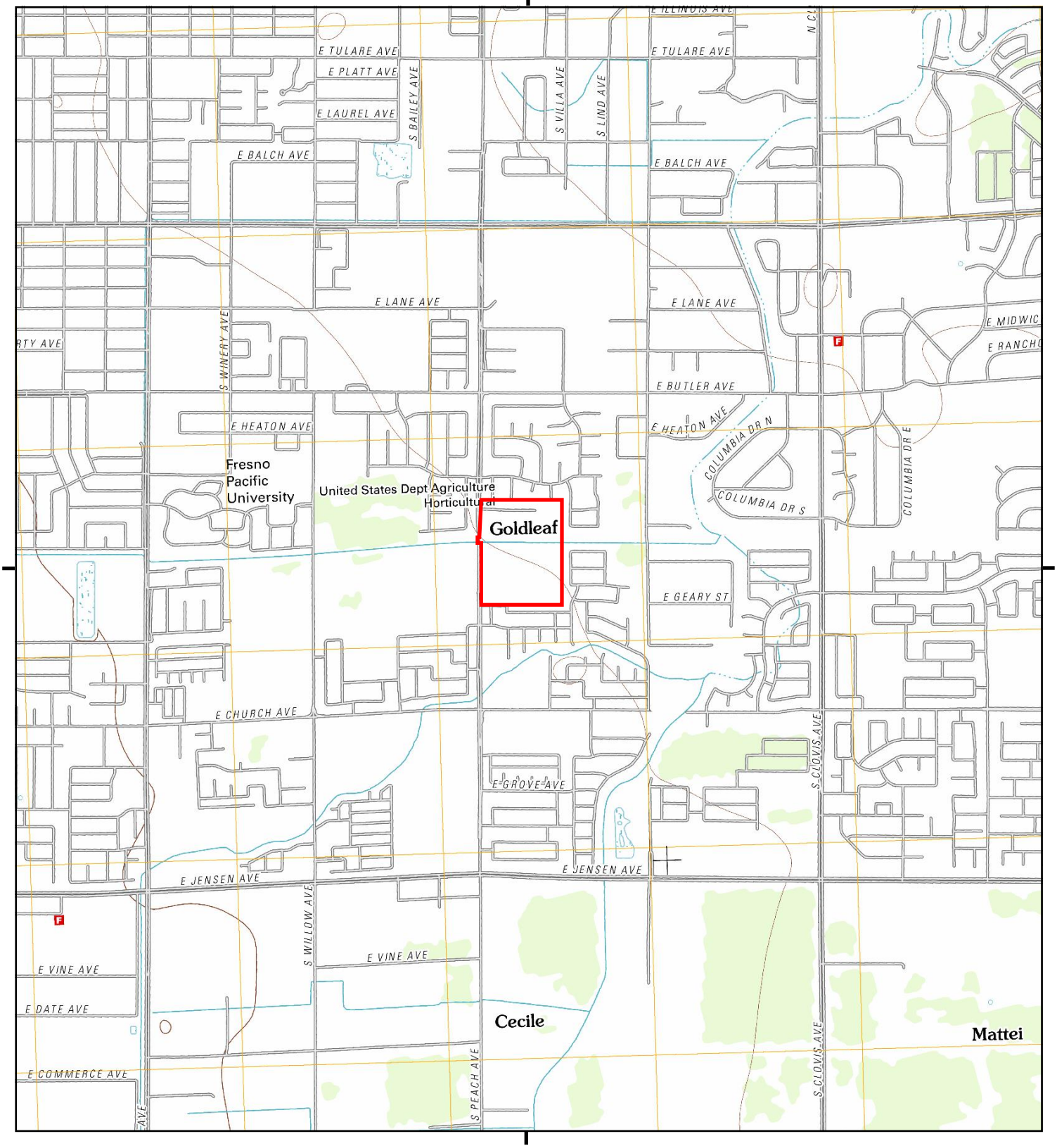
1923 Source Sheets



Malaga
1923
7.5-minute, 31680

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

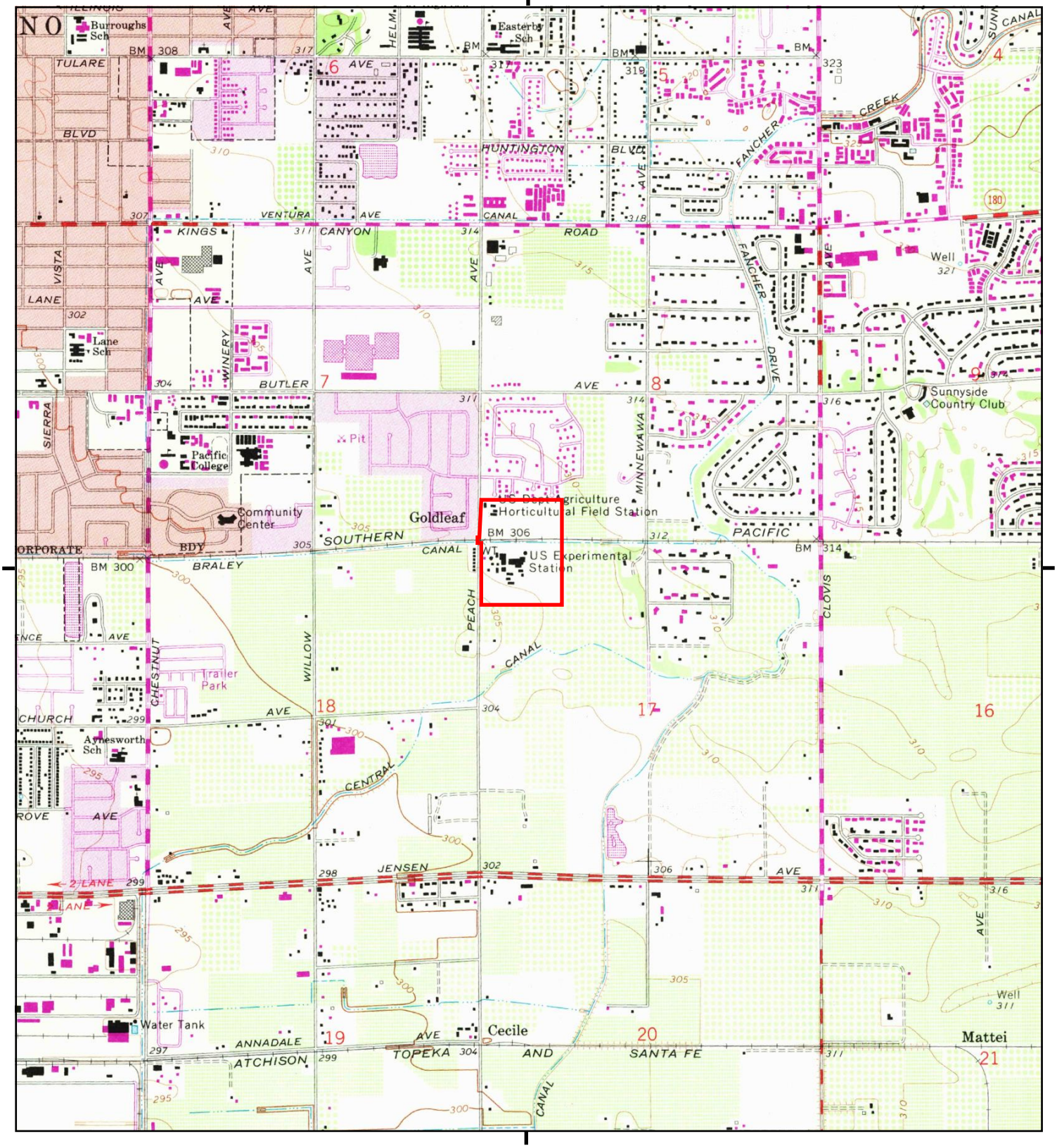
TP, Malaga, 2012, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1981



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

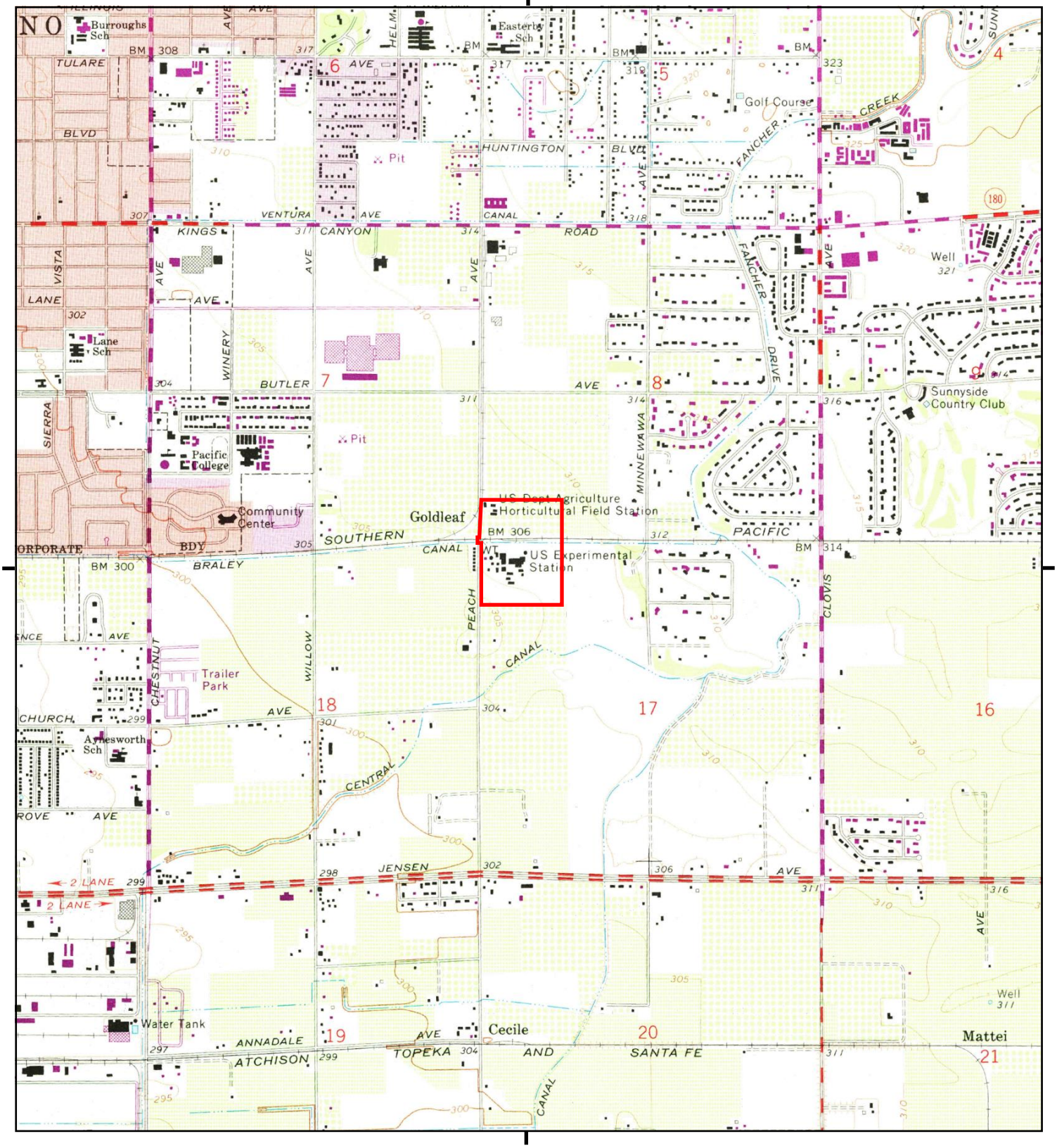
TP, Malaga, 1981, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1972



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

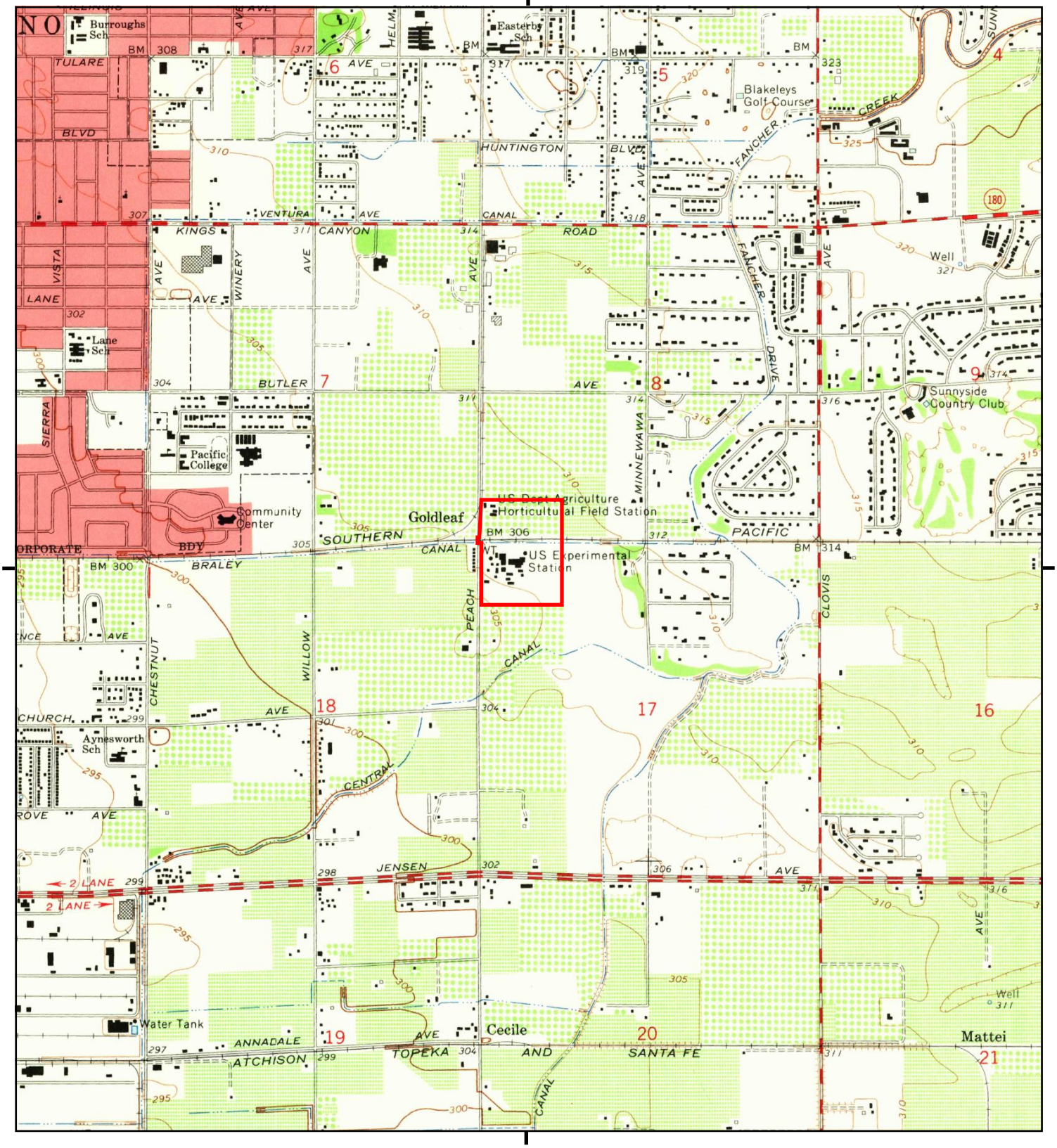
TP, Malaga, 1972, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1964



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

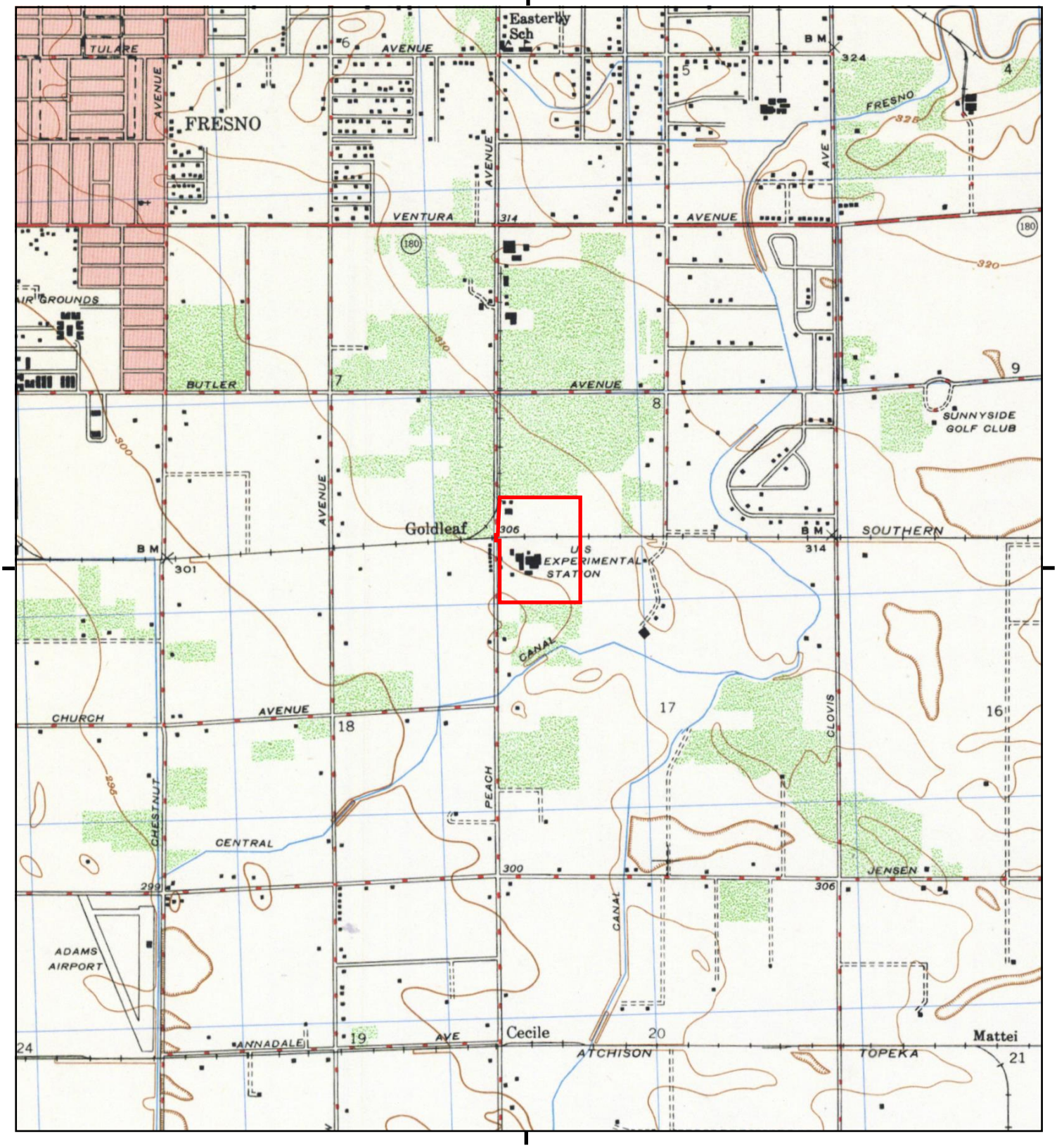
TP, Malaga, 1964, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

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

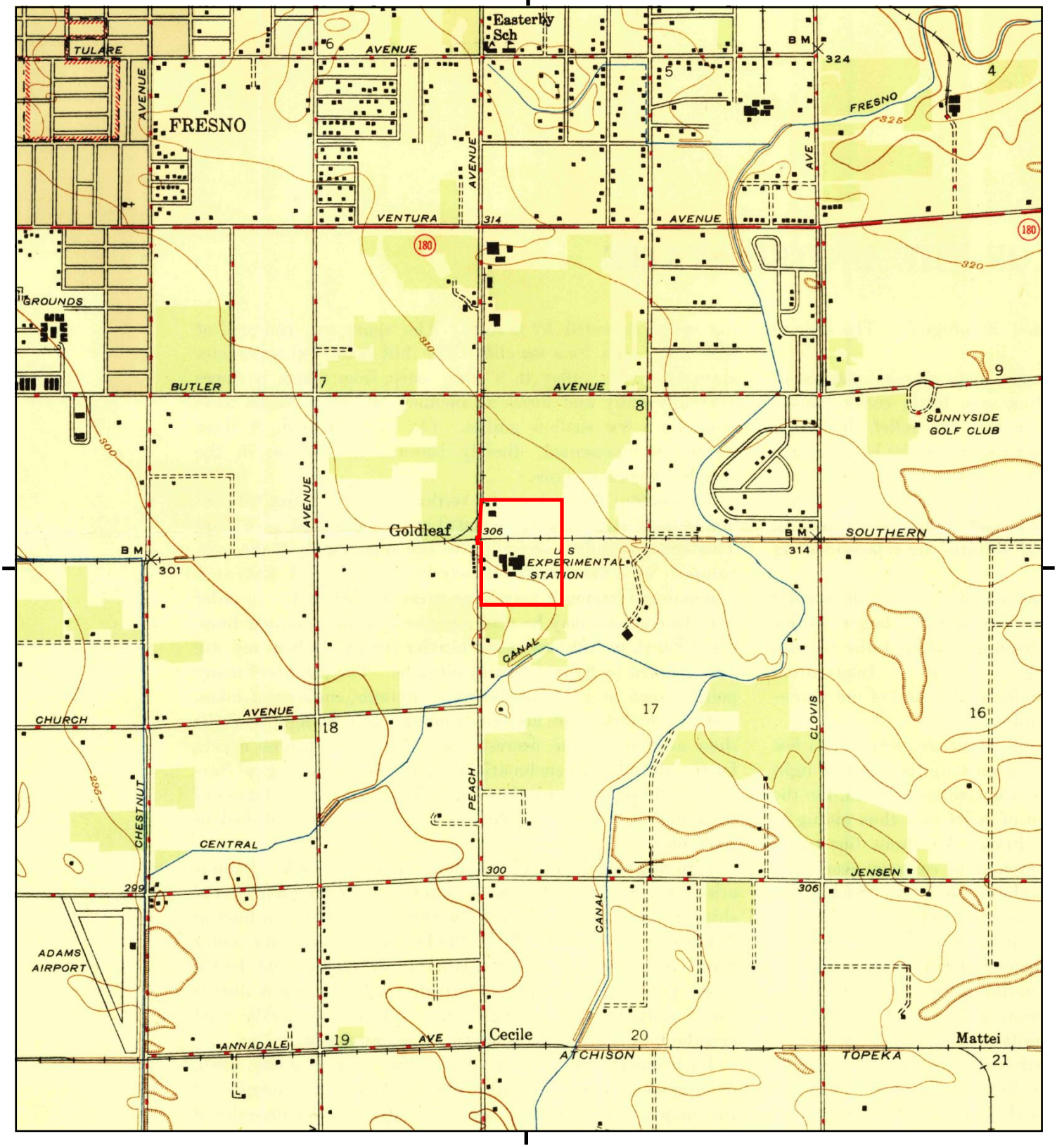
TP, MALAGA, 1948, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1947



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

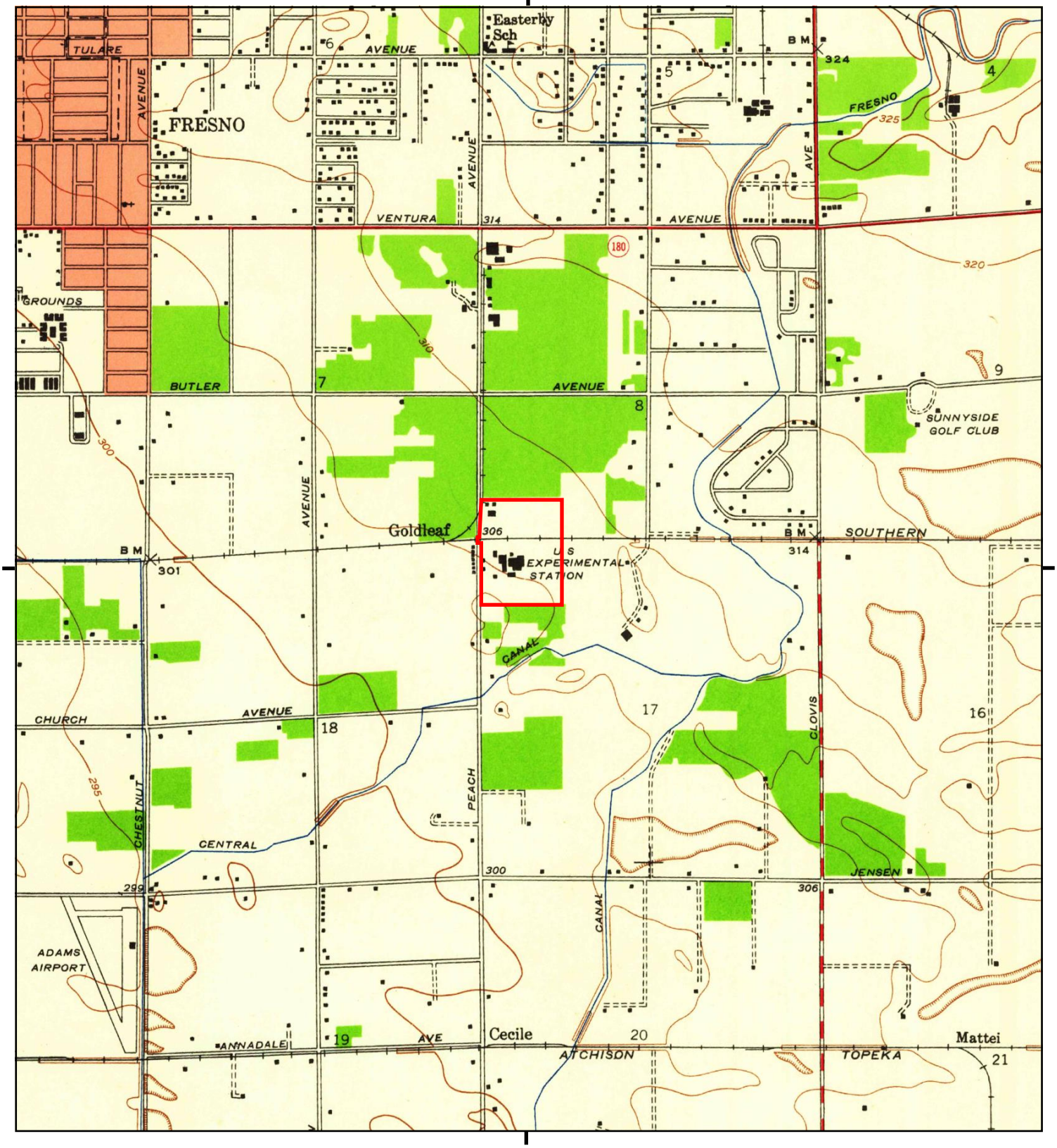
TP, Malaga, 1947, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1946



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

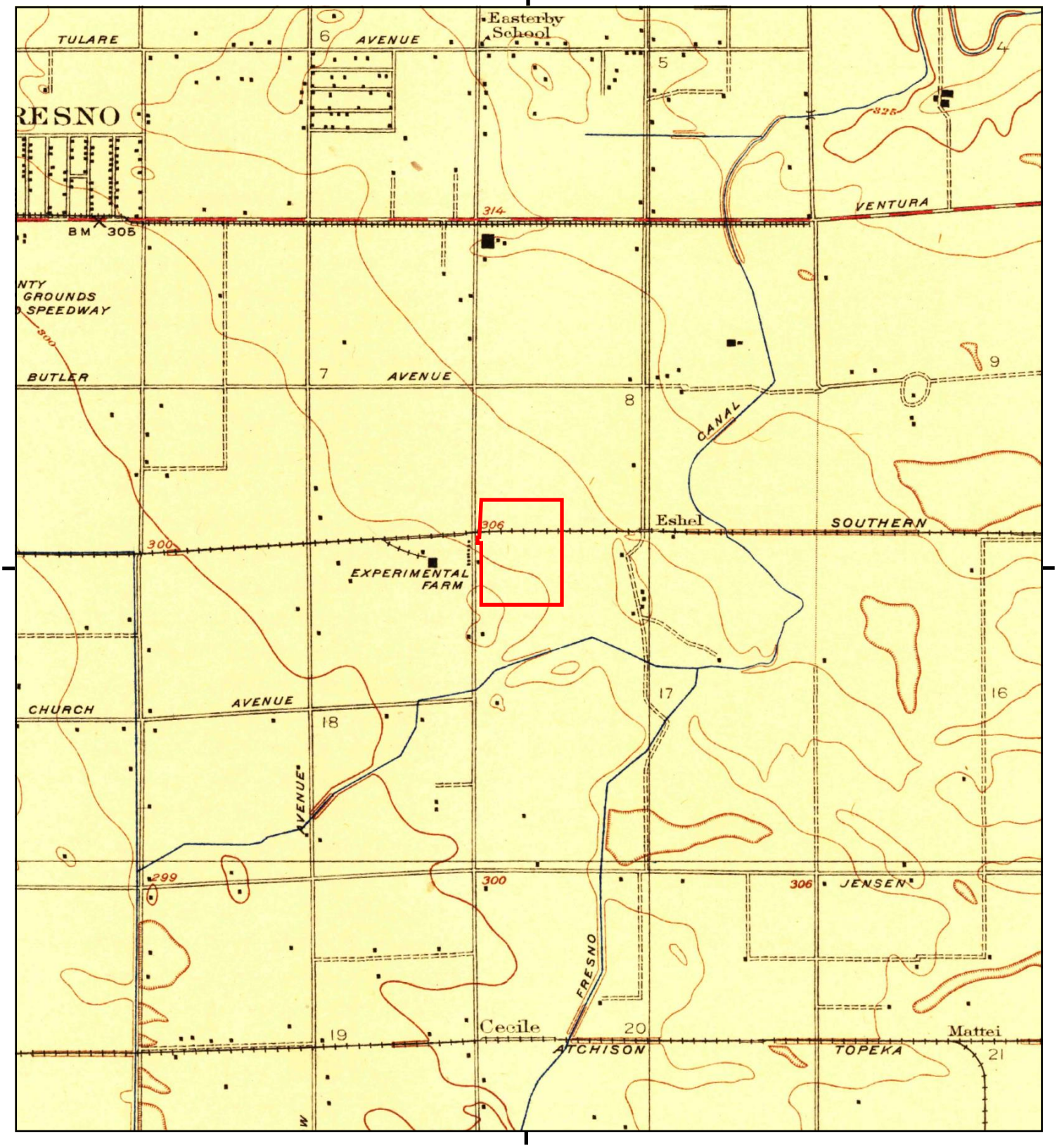
TP, Malaga, 1946, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Historical Topo Map

1923



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, Malaga, 1923, 7.5-minute

SITE NAME: Southeast Fresno Regional Park
ADDRESS: 2155 South Peach Avenue
Fresno, CA 93727
CLIENT: Wallace - Kuhl & Associates

N

Southeast Fresno Regional Park

2155 South Peach Avenue

Fresno, CA 93727

Inquiry Number: 6281215.8

November 25, 2020

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

11/25/20

Site Name:

Southeast Fresno Regional Pa
2155 South Peach Avenue
Fresno, CA 93727
EDR Inquiry # 6281215.8

Client Name:

Wallace - Kuhl & Associates
3050 Industrial Boulevard
West Sacramento, CA 95691
Contact: Nancy Malaret

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
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1987	1"=500'	Flight Date: June 17, 1987	USDA
1984	1"=500'	Flight Date: June 09, 1984	USDA
1979	1"=500'	Flight Date: September 04, 1979	USDA
1973	1"=500'	Flight Date: May 08, 1973	USDA
1967	1"=500'	Flight Date: May 02, 1967	USDA
1962	1"=500'	Flight Date: August 09, 1962	USGS
1957	1"=500'	Flight Date: August 09, 1957	USDA
1950	1"=500'	Flight Date: January 31, 1950	USDA
1946	1"=500'	Flight Date: April 22, 1946	USGS
1937	1"=500'	Flight Date: November 04, 1937	USDA

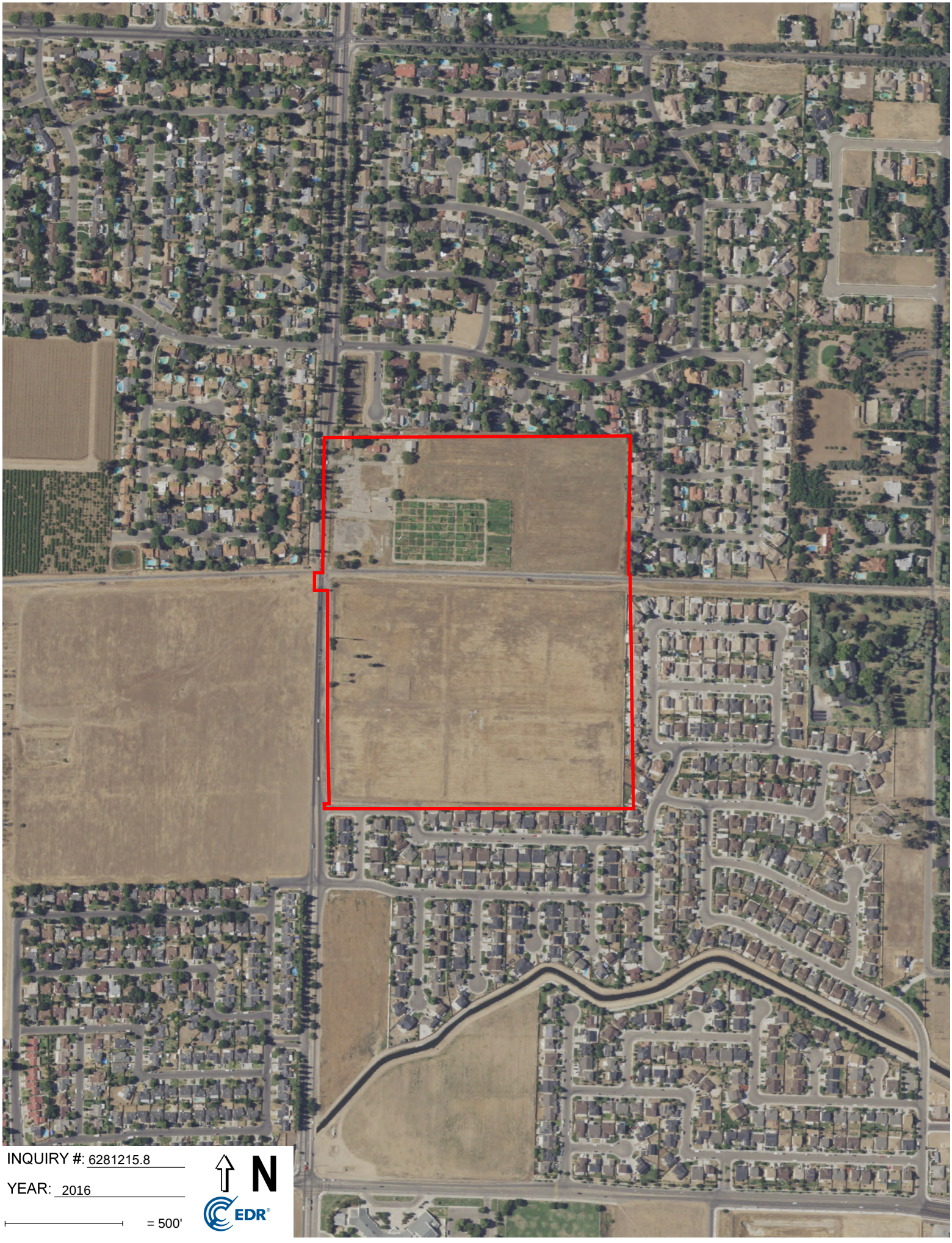
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

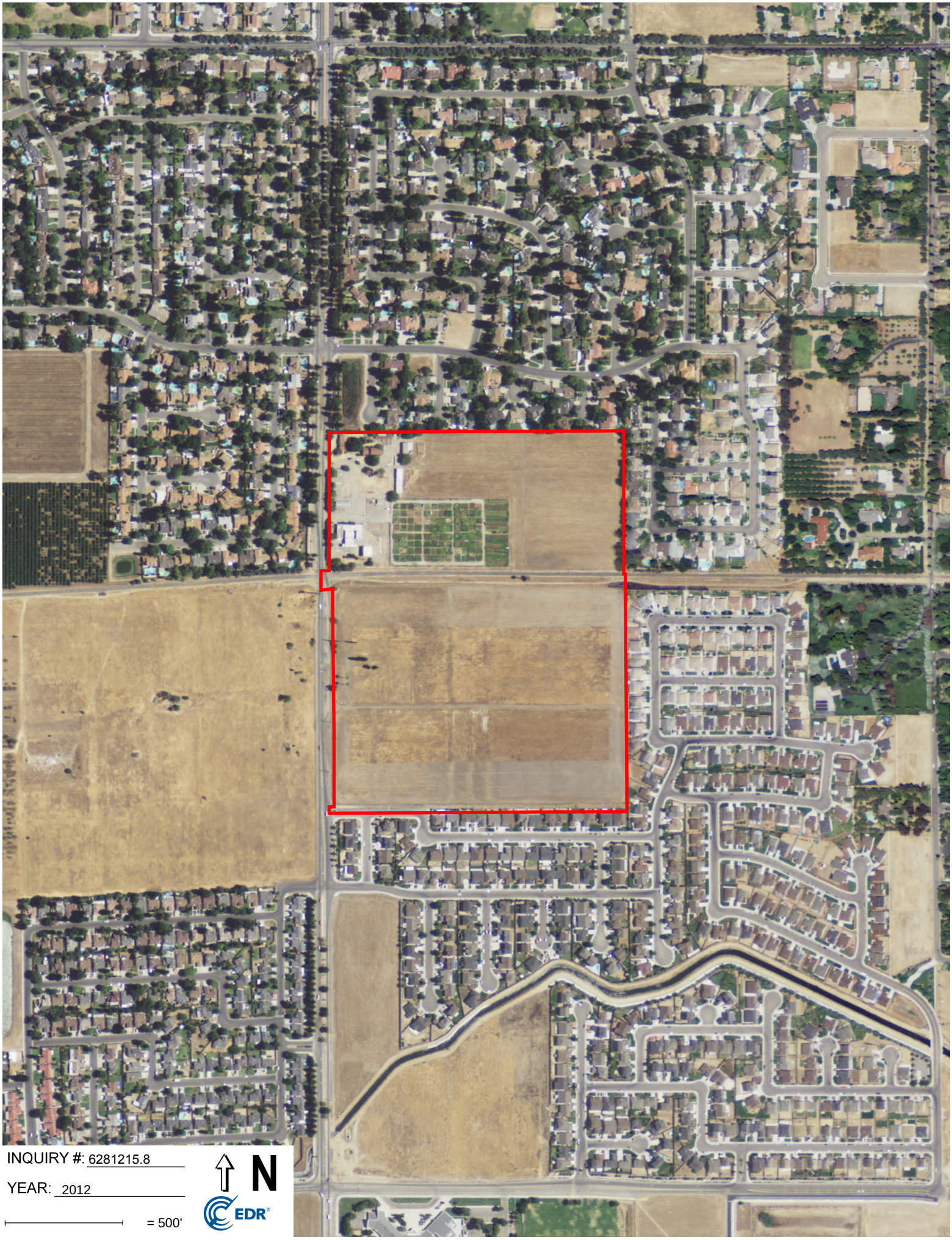
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INQUIRY #: 6281215.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 2012
= 500'
N
EDR



INQUIRY #: 6281215.8

YEAR: 2009

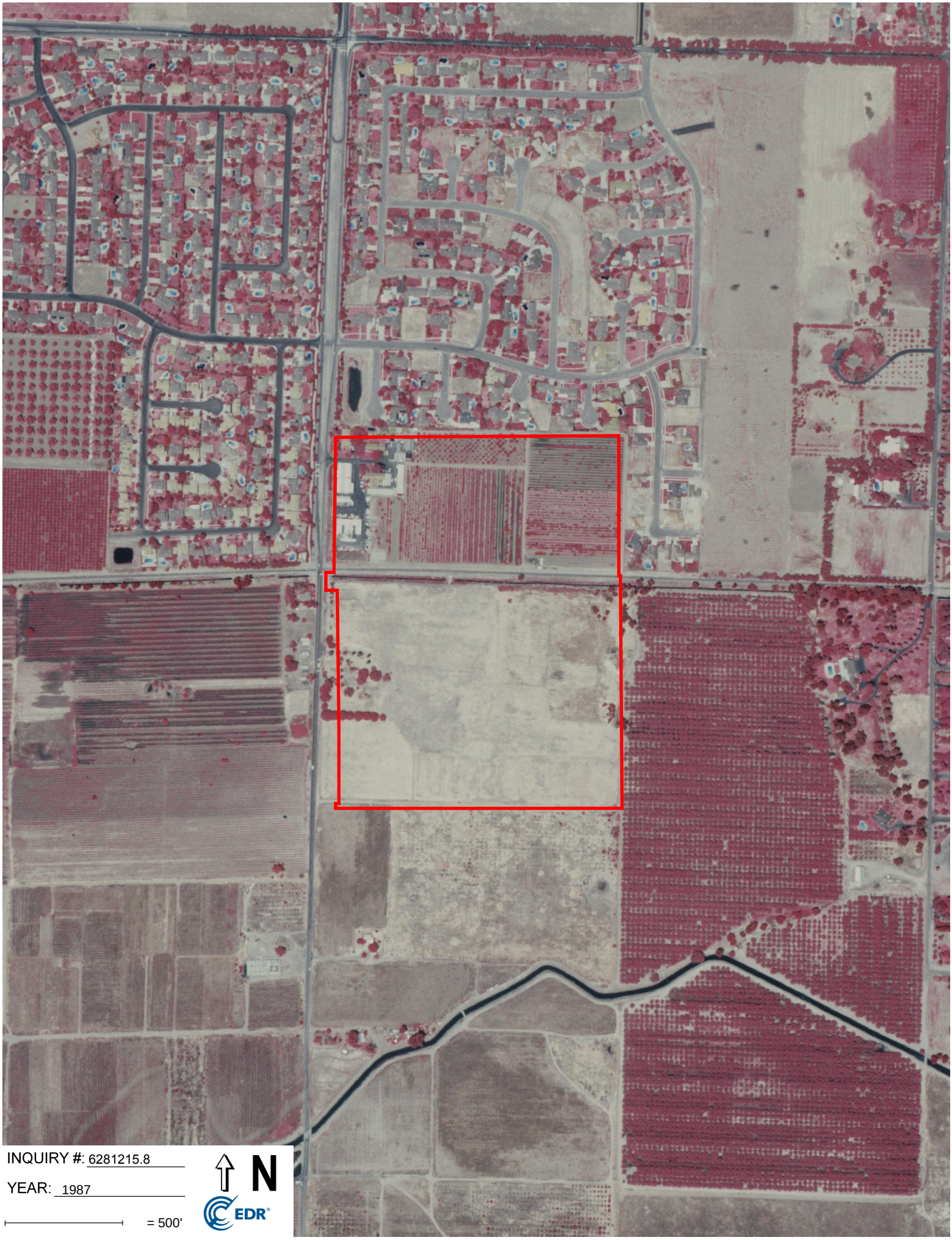
= 500'

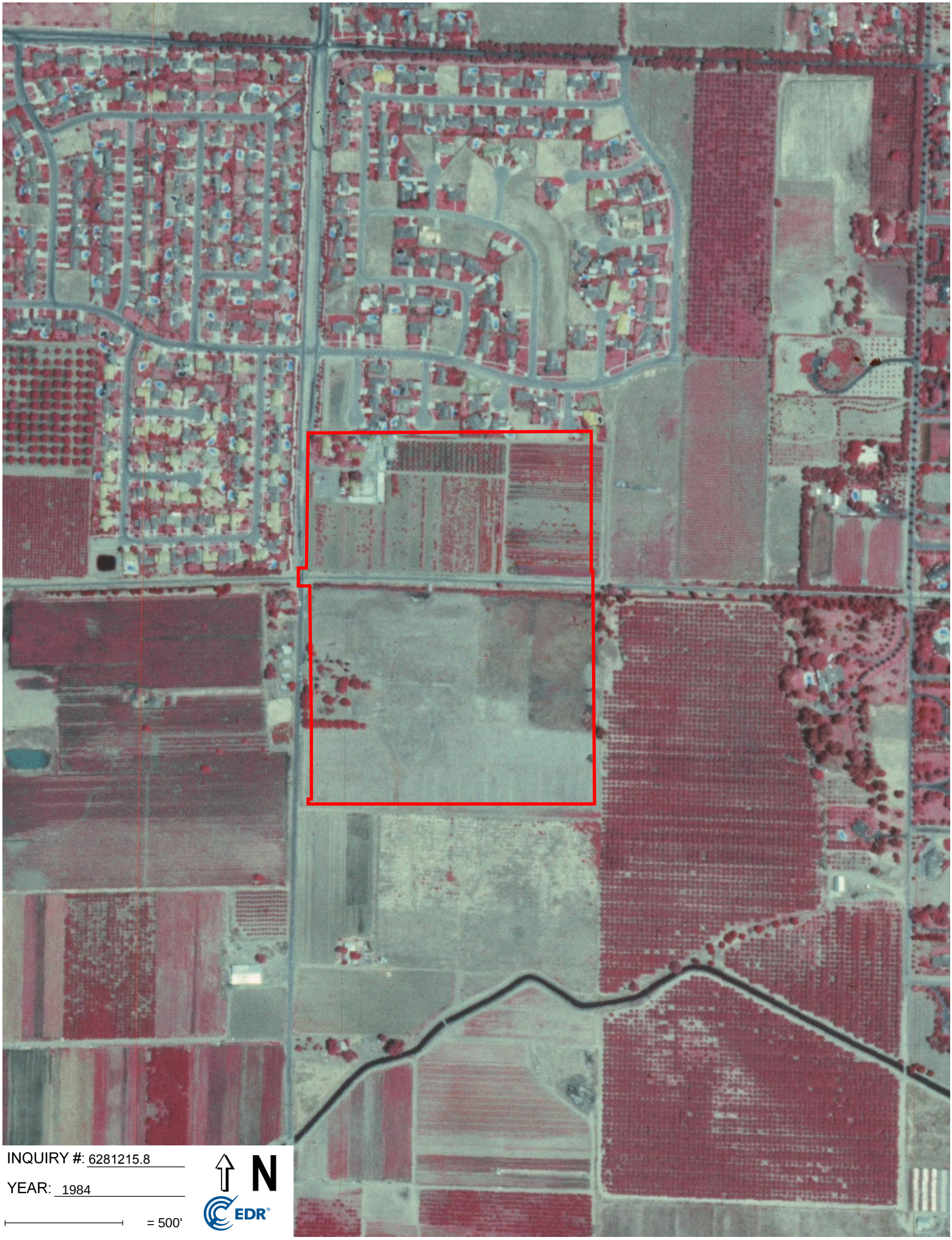
N

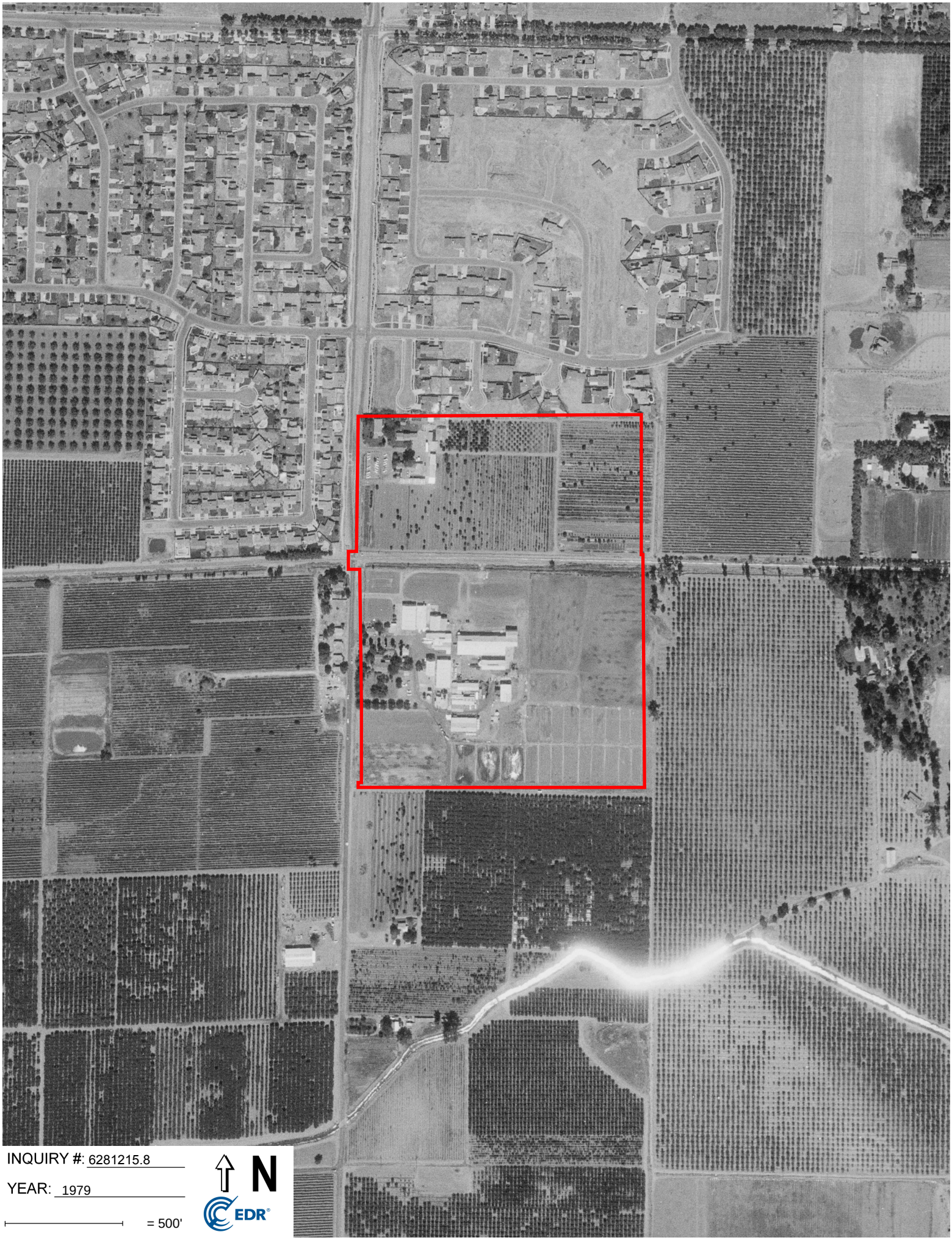
EDR


INQUIRY #: 6281215.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 1998
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 1987
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 1984
= 500'
N
EDR



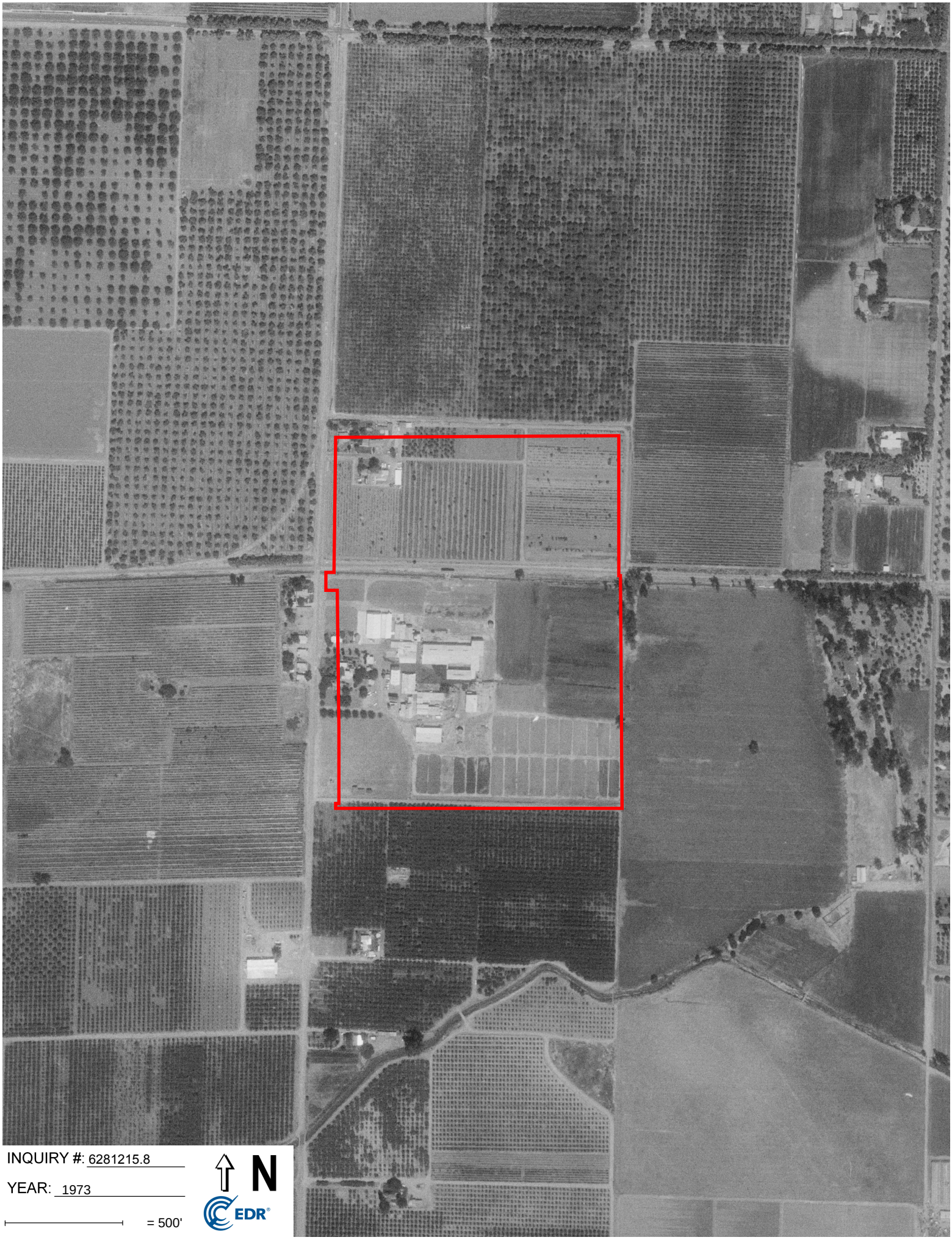
INQUIRY #: 6281215.8

YEAR: 1979

= 500'

N

EDR


INQUIRY #: 6281215.8
YEAR: 1973
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 1967
= 500'
N
EDR



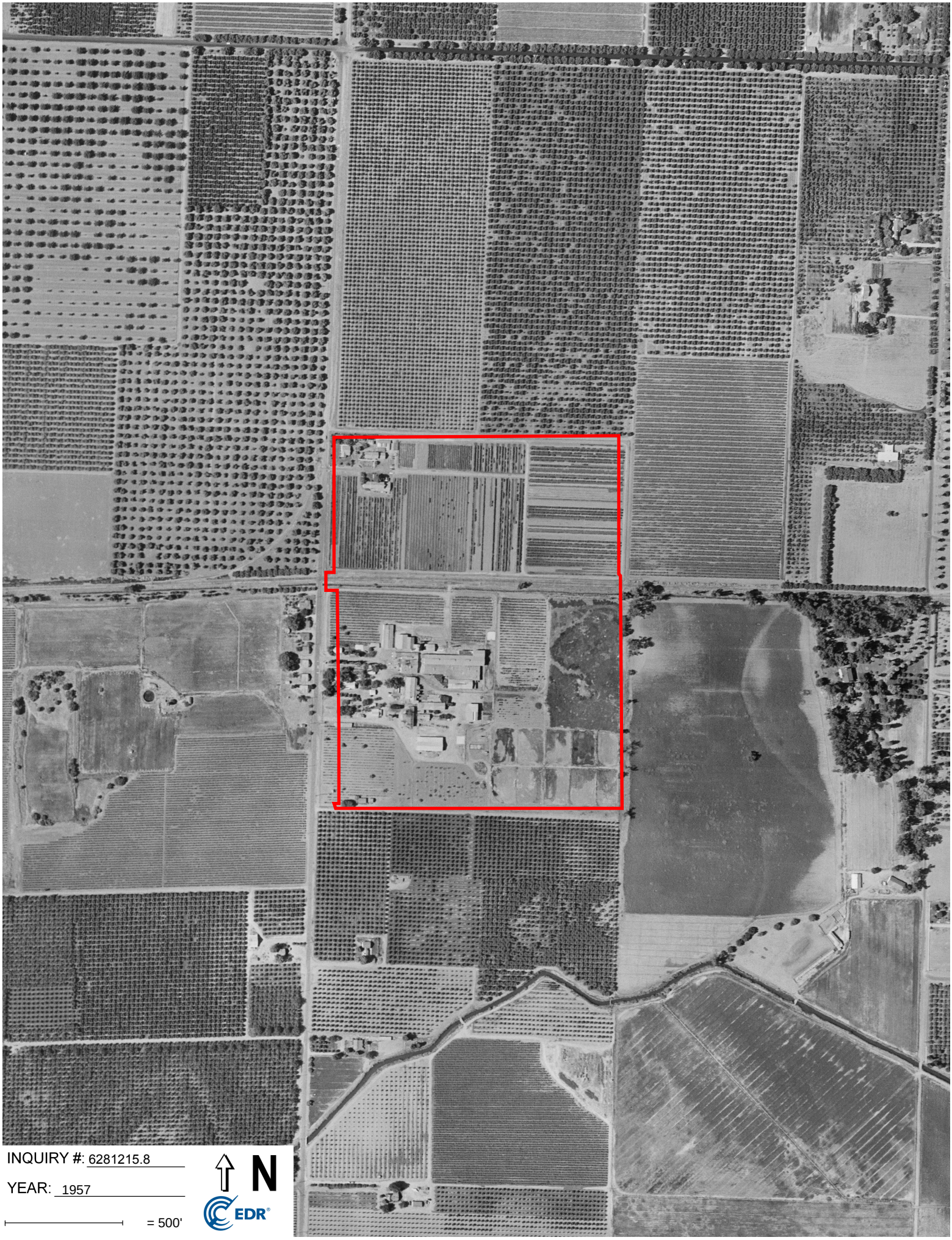
INQUIRY #: 6281215.8

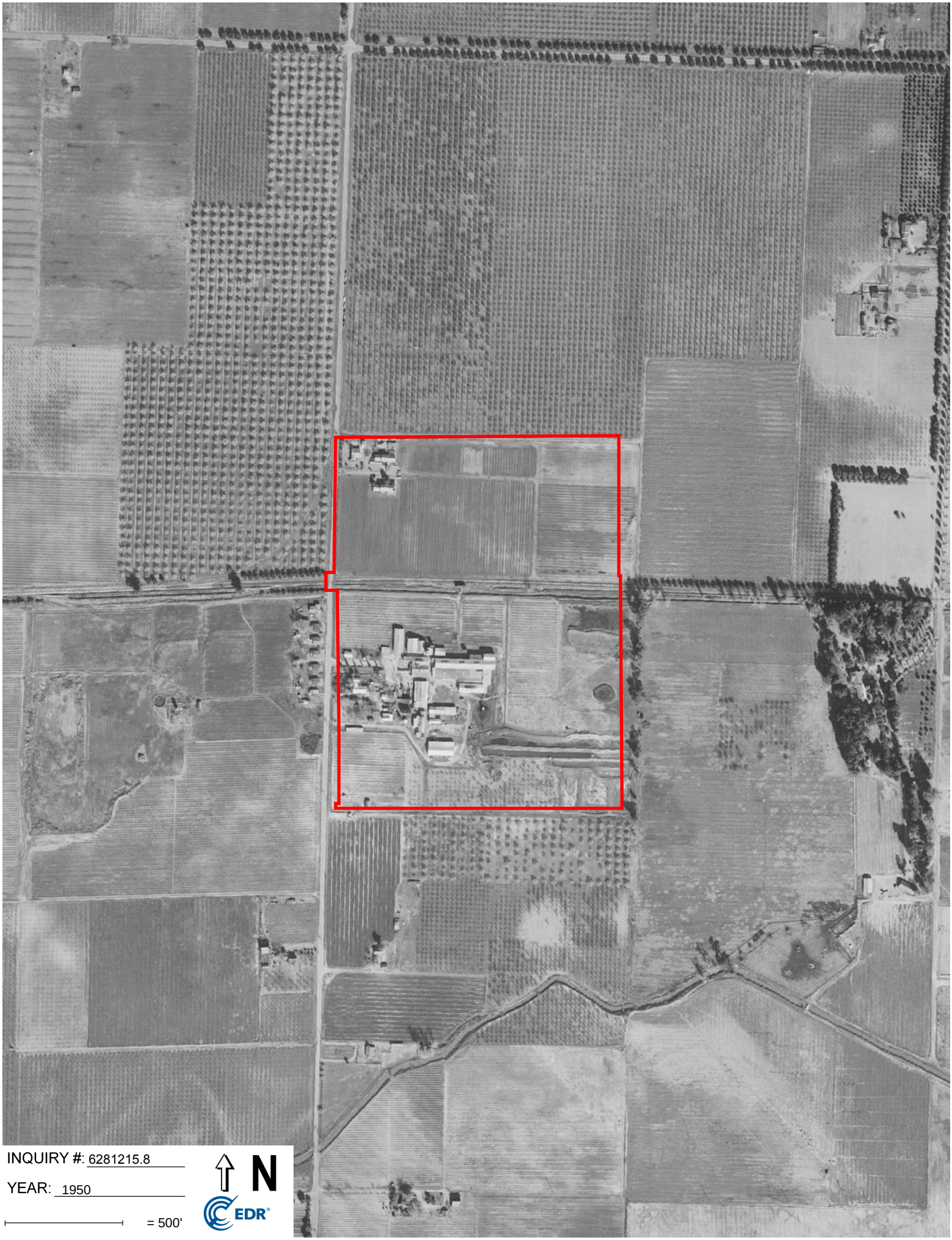
YEAR: 1962

= 500'

N

EDR


INQUIRY #: 6281215.8
YEAR: 1957
= 500'
N
EDR


INQUIRY #: 6281215.8
YEAR: 1950
= 500'
N
EDR



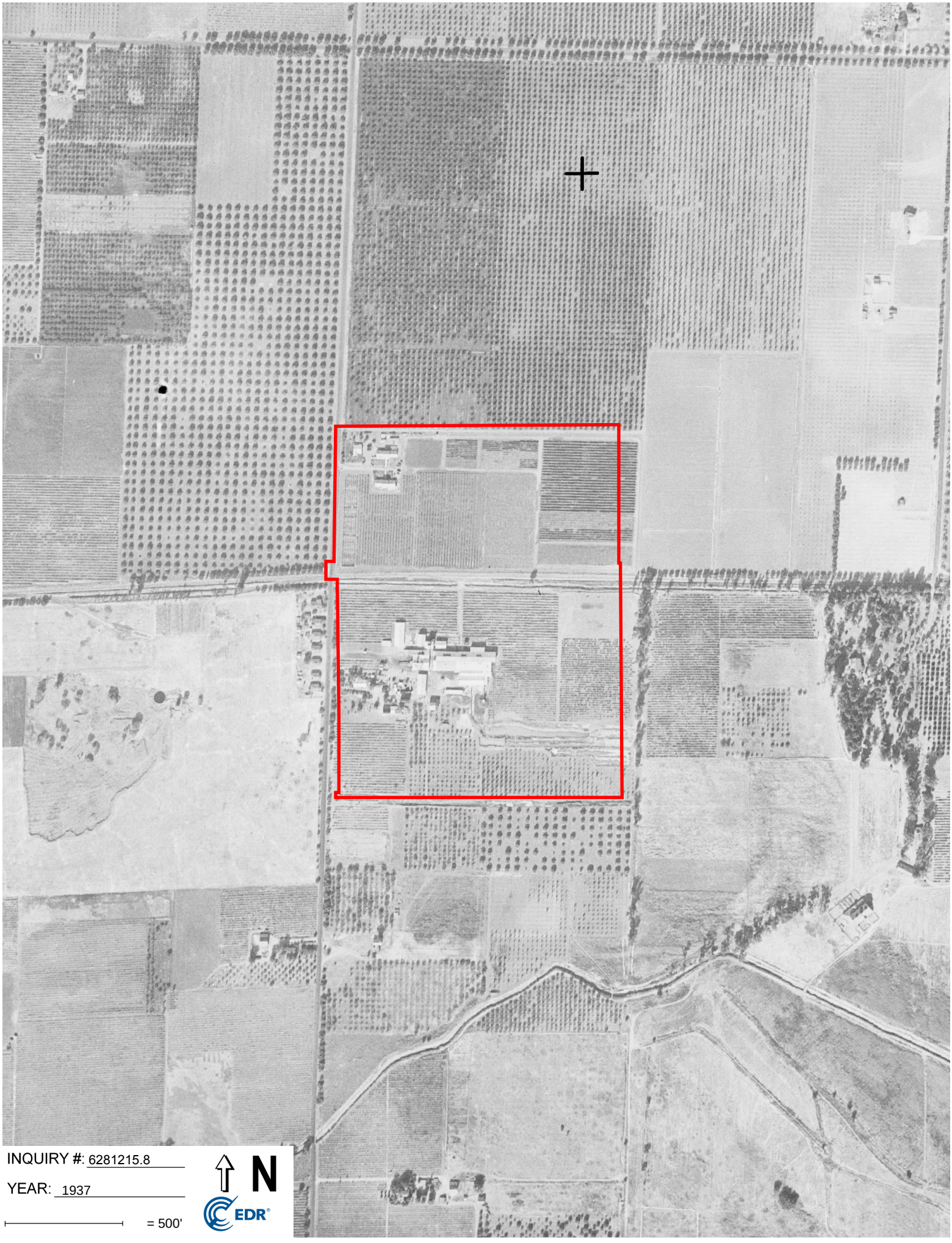
INQUIRY #: 6281215.8

YEAR: 1946

= 500'

N

EDR



INQUIRY #: 6281215.8

YEAR: 1937

= 500'

N

EDR

488-1593

September 16, 1977

U. S. Department of Agriculture
Agriculture Research Service
Post Office Box 8143
Fresno, California 93727

Attention: Mr. Larry Cofton

Subject: Property Line between 2021 South Peach and Tract 2467

Dear Mr. Cofton:

Subsequent to our last correspondence, further field investigations have been conducted. As a result of these investigations, it has come to my attention that the developer of lot 57 of the above-mentioned tract has placed fills against your fence.

This office has contacted the developer and initiated steps to rectify this condition. The final design to be approved by this office will not allow the placement of fills against the fence structure.

If you have any questions or require further assistance, please contact this office at 488-1593.

Very truly yours,

PLANNING & INSPECTION DEPARTMENT
Building, Safety & Consulting
Services

Rick Ransom, Civil Engineer I

RR/cg

488-1593

August 15, 1977

U. S. Department of Agriculture
Agriculture Research Service
Post Office Box 8143
Fresno, California 93727

Attention: Mr. Larry W. Lofton

Subject: Ground Level of Properties Adjoining 2021 South Peach

Dear Mr. Lofton:

Upon receipt of your June 22, 1977 letter, a field investigation of the above-mentioned property was conducted in early July.

At the time of our field investigation, no violation of the building code was observed to exist. Chapter 70 of the Uniform Building Code allows a 2 to 1 slope transition in locations where grade differentials are present, providing lot drainage is not directed onto adjoining properties. In view of our field observations and the provisions of Chapter 70, this office cannot take any action at this time.

Please find enclosed the ownership for the parcels requested in your letter.

If you feel that any conditions have changed since our field investigation was performed or if you have any further questions, please feel free to contact me at 488-1593.

Very truly yours,

PLANNING & INSPECTION DEPARTMENT
Joe Oakley
Structural Engineer IV

Rick Ransom, Civil Engineer I

RR/cg

Enclosures

City of **FRESNO**

APPLICATION FOR STREET WORK PERMIT - CITY OF FRESNO

ALL WORK SHALL COMPLY WITH THE CITY OF FRESNO PUBLIC WORKS DEPARTMENT SPECIFICATIONS

Job Address: 2021 S. PEACH — U.S.A. Request #:

Job Description: INSTALL A.C. DRIVEWAY

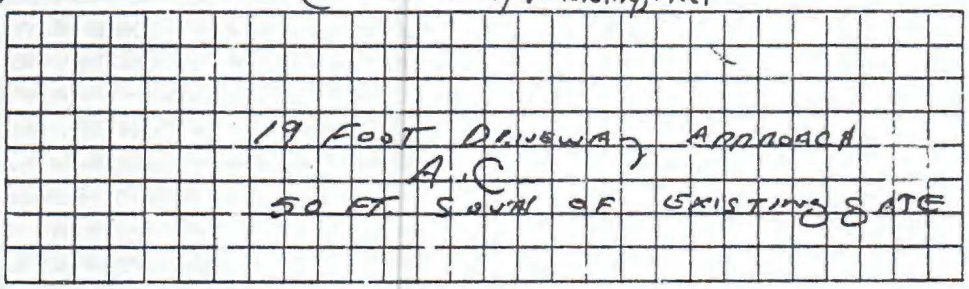
Contractor: CLOVIS PAVING & SEALING INC — License Number: 500325

Address: 4543 N. HAYES — City: FRESNO — Zip: 93727-

By: Buddy Ray — Date: 3-3-88 — Phone: 433-3005

DIAGRAM OF WORK REQUIRED (INDICATE NORTH AND SHOW THE EXISTING AND NEW WORK)

Jack Smith - CLOVIS PAVING & SEALING, INC.



NOTICE TO CONTRACTORS

THIS PERMIT IS NOT VALID UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE PUBLIC WORKS DIRECTOR. THIS APPLICATION MUST BE RECEIVED AND REVIEWED BY THE CONSTRUCTION MANAGEMENT DIVISION AT 1919 EAST McKINLEY AVENUE PRIOR TO APPROVAL. ANY WORK DONE PRIOR TO APPROVAL IS SUBJECT TO IMMEDIATE REJECTION. ALL INSPECTIONS AND/OR JOB MEETINGS SHALL BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE BY CALLING THE CONSTRUCTION MANAGEMENT DIVISION AT 488-1451. HAVE A REPRESENTATIVE AT THE JOBSITE AT THE SCHEDULED TIME

JOB ADDRESS 2021 S. PEACH — PERMIT NO. 881213

INSPECTIONS

Manholes, Drain Inlets, Etc.	@	$50.00/ea.	$
Sewer Mains	@	$1.00/L F	$
Water Mains	@	$0.50/L F	$
Water Service Connection	@	$50.00/ea.	$
Trench Backfill			$
Sidewalks	@	$0.20/L F	$
Special Sidewalk (Brick, etc.)	@	$0.40/S F	$
Curbs or Gutters	@	$0.20/L F	$
Curbs & Gutters	@	$0.40/L F	$
Driveway Approach (curb line distance)	@	$1.20/L F	$ N.C.R.
Valley Gutters	@	$1.00/L F	$
Street Lights & Signals	@	$50.00/ea	$
Traffic Control (lane closure or detour)	@	$25.00	$
Paved Street	@	$0.04/S F	$
Paved Alley	@	$0.08/S F	$
Other Special Items			$
Total Inspection: (Min. $100.00)			$ 100.00

SURVEYING & STAKING

Sidewalk, curbs gutters & drive approaches	@ $0.75/L F	(Min. $200.00)	$
Street or sewer grades	@ $0.75/L F	(Min. $200.00)	$
Other			$
Total Survey & Staking			$

TRENCHING RESURFACING

Concrete	@$18.00/S F	(Min. $150.00)	$
Asphalt Concrete	@$18.00/S F	(Min. $150.00)	$
Oil Dirt	@$12.00/S F	(Min. $36.00)	$
Sawcutting	@$4.80/L F	(Min. $96.00)	$
Total Resurfacing			$

TOTAL FEES

Inspection	$
Surveying & Staking	$
Trench Resurfacing	$
TOTAL DUE (3063)	$

Permission is hereby granted to the above applicant to do the above described work: In compliance with Art.2, Chapter 11 of the Fresno Municipal Code.

PUBLIC WORKS DIRECTOR

By Ken Stanwood Date 3/21/88

Inspector Ralph Rabbon

Date Checked 3-30-88

Stakes Requested

Party Chief or Eng.

Work to be done by Street Dept.

Inspector's Remarks

OPEN CUT — BORE

BY: JAY N. — DATE: 3-2-88

OR'D AS PER KENNETH LOVIE

Accepted by Ralph Rabbon Date 3/7/88

Liability Insurance & Performance Bond JR — Zone: AE-5

Verified by — Date 3/28/88 — 100.00

Payment Rcvd: MAR 28 1988 CONSTRUCTION MGMT. — TOTAL 100.00

7888 0000-0000 333 CASH 3/28/88 PM 1:11

7888 0000-0000 333 3/28/88 PM 1:11

ROUTING:

(1) Construction Mgmt.
(2) Construction Mgmt. - Applicant
(3) Construction Mgmt.
(4) Finance
(5) P & I

Paid cash #100 3/28/88 LT

L. Tuttle

CITY OF FRESNO
DEPARTMENT OF FINANCE
Enterprise Accounting Division
2348 Mariposa St.
Fresno, CA 93721

INVOICE NO. 3714

Date November 5, 1984

Amount $14,603.00

JOB OR Order # 40-91H2-4-3108
ACCOUNT NO.

U. S. Department of Agriculture
National Finance Center
P. O. Box 60073
New Orleans, Louisiana 70160

THIS INVOICE IS DUE AND PAYABLE UPON RECEIPT

Fees for water and sewer hook-up at:

2021 Peach Avenue, Fresno, CA.

Water:	$6,464.20
Sewer:	8,138.80
TOTAL	$14,603.00

3676 12/24/84 14603.00
049 9676 12/24/84 14603.00 TL

City forces will hook-up water only.
Fees for Sewer are fees required only.

FUND	DEPT./DIV.	REVENUE	AMOUNT
581	250	3180	6,464.20
617	250	3180	8,138.80

Please make check or money order payable to CITY OF FRESNO and return with pink copy of invoice.
THANK YOU

BY: Carol S. Wojciechowski PAID 12/26/84

☒ CHECK ☐ CASH ☐ MONEY ORDER

CHECK NO.	DATE	BANK NO.	AMOUNT
16,257,991	12/17/84	15-51	14,603.00
Kansas City			

NOTICE TO CHECK RECIPIENT

VENDOR NAME
CITY OF FRESNO
AGENCY BILLING ADDRESS:
USDA-NFC, P O BOX 60800
NEW ORLEANS, LA. 70160
CALL 504-255-5370 OR
TOLL FREE 1-800-421-0323

VENDOR I.D. NUMBER
4091H243108

CHECK INFORMATION
DISBURSING LOC: KANSAS CITY
CHECK NUMBER: 16 257 991
CHECK AMOUNT: $14,603.00
CHECK DATE: 12-17-84

PAYMENT IDENTIFICATION INFORMATION
P O # 40-91H2-4-3108
INV AMOUNT $14,603.00
#3714
SCHD/SEQ N24349-02037

CREDIT ACCT OF USDA - AGRICULTURAL RESEARCH SERVICE

TREASURY - FISCAL SERVICE TFS 3091-801 (Formerly TFS 1265)

O-O-M-2055

(SEE REVERSE FOR FURTHER INFORMATION)

0009437

APPLICATION FOR PERMIT TO CONSTRUCT
SEWAGE DISPOSAL SYSTEM

Prepare in Duplicate - Bring to office for review.
A Sanitarian is on duty at the main office.
Phone for appointment at branch offices.

04379

FRESNO COUNTY
PUBLIC HEALTH DEPARTMENT
515 No. Cedar Ave.
Fresno 2, California
CL 5-9711 Ext. 351

815 G Street
Reedley, California
MElrose 8-3427

13th and Olive Streets
Firebaugh, California
OLiver 9-2820

Permit # Non

Name

Jot # 10045079

Address

1. To Construct a Sewerage System for United States Dept of Ag.

   location 2021 S. Peach Ave

2. Lot Size: Width _____ ft. Depth _____ ft. ✓ Acres

3. Application for: New Sewage System _____ Addition to Old System _____ Replace System ✓

4. Building to be served by proposed system: Lab & Rest Rooms
   old System was 100 gal & 18 it

   Residence _____ No. Bedrooms _____ Garbage Grinder _____

   Other _____

SUBMIT GENERAL PLAN IN DUPLICATE WITH THE PERMIT APPLICATION

5. Water Supply:

   a. For premises: Community _____ Private Well ✓

   Distance to nearest well 100 ft. Private Well Plus Community _____

6. Sketch plot plan of proposed construction on reverse side.

7. Who will install system? SMITH AND YEAROUT INC

I hereby state that the information above and on the reverse side is correct and true to the best of my knowledge and belief. I understand that the permit must be obtained before any construction on the building is started and that an inspection of the system is required before backfilling.

Date of Application 6-2-64 Signature [signature]

Date Permit Approved 6-3-64 By [signature]

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS TO BE COMPLETED BY SANITARIAN

Septic Tank Capacity 1500 gallons Census Tract No. 14

Seepage Pits No. 2 Leach Field _____ sq. ft. Permit No. _____

REMARKS: Can you check backfill of abandoned system ? 24 hr Call
New construction started over old system

HD 8-20 (3-63)

APPLICATION FOR PERMIT TO CONSTRUCT
SEWAGE DISPOSAL SYSTEM

Prepare in Duplicate - Bring to office for review.
A Sanitarian is on duty at the main office.
Phone for appointment at branch offices.

04079

FRESNO COUNTY
PUBLIC HEALTH DEPARTMENT
515 No. Cedar Ave.
Fresno 2, California
CL 5-9711 Ext. 351

815 G Street
Reedley, California
MElrose 8-3427

13th and Olive Streets
Firebaugh, California
OLiver 9-2820

Name Permit # Won

Address Jot # 10044

1. To Construct a Sewerage System for United States Dept of Ag

location 2021 S. Peach Ave

2. Lot Size: Width _____ ft. Depth _____ ft. ✓ Acres

3. Application for: New Sewage System _____ Addition to Old System _____ Replace System ✓

4. Building to be served by proposed system: Lab & Rest Rooms
old system was 100 gal & 18 it

Residence _____ No. Bedrooms _____ Garbage Grinder _____

Other _____

SUBMIT GENERAL PLAN IN DUPLICATE WITH THE PERMIT APPLICATION

5. Water Supply:

a. For premises: Community _____ Private Well ✓

Distance to nearest well 100 Plus ft. Private Well _____ Community _____

6. Sketch plot plan of proposed construction on reverse side.

7. Who will install system? SMITH AND YEARGIN

I hereby state that the information above and on the reverse side is correct and true to the best of my knowledge and belief. I understand that the permit must be obtained before any construction on the building is started and that an inspection of the system is required before backfilling.

Date of Application _____ Signature _____

Date Permit Approved 6-3-64 By _____

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS TO BE COMPLETED BY SANITARIAN

Septic Tank Capacity 1500 gallons Census Tract No. 14

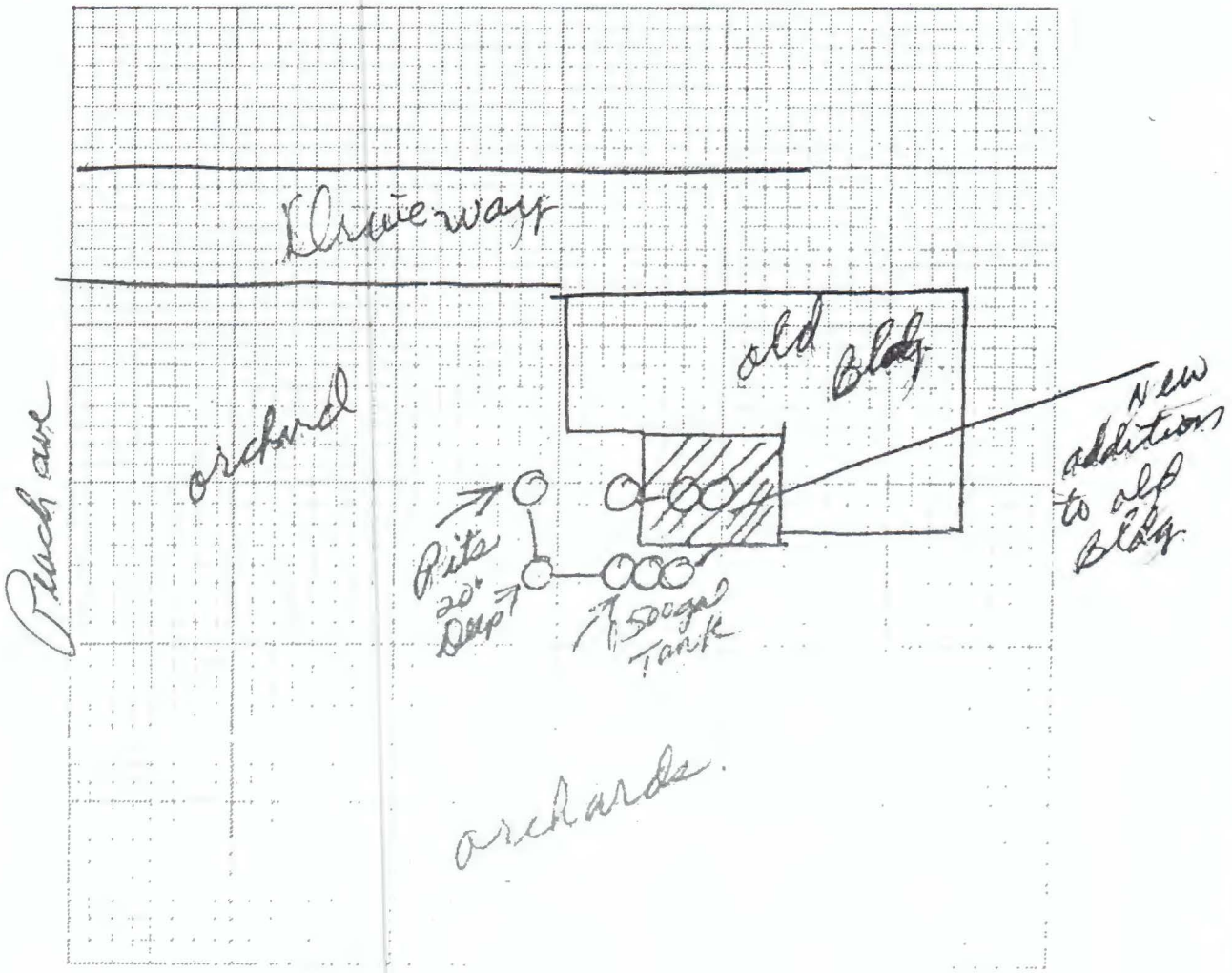
Seepage Pits No. 2 (2) Leach Field _____ sq. ft. Permit No. _____

REMARKS: can you check backfill of abandoned system 2 ft/day could new construction started over old system

HD S-20 (3-63)

Sketch to scale plot plan showing:

a. Adjacent streets and indicate which way is North
b. Property lines and distances.
c. Location of proposed building and driveway.
d. Location of large trees, rocks, or other obstacles.
e. Location of any well, spring, creek, or other body of water.
f. Show direction and approximate degree of slope.
g. Your proposed location and layout for the sewage disposal system.
h. Show septic tank as known to exist.



APPLICATION FOR STREET WORK PERMIT · CITY OF FRESNO

ALL WORK SHALL COMPLY WITH THE CITY OF FRESNO PUBLIC WORKS DEPARTMENT SPECIFICATIONS

Job Address: 2021 S. PEACH AVE. FRESNO, CA.

Job Description: SEWER LINE CONNECTION

Contractor: GENTZ CONST. CO. | License Number: 257817

Address: P.O. BOX 4347 FRESNO, CA. 93774 | City: FRESNO | Zip: 93774

By: TIM ANDERSON | Date: 10/25/84 | Phone: 275-1361

DIAGRAM OF WORK REQUIRED (INDICATE NORTH AND SHOW THE EXISTING AND NEW WORK)

SEE ATTACHED

NOTICE TO CONTRACTORS

THIS PERMIT IS NOT VALID UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE PUBLIC WORKS DIRECTOR. THIS APPLICATION MUST BE RECEIVED AND REVIEWED BY THE CONSTRUCTION MANAGEMENT DIVISION AT 1919 EAST McKINLEY AVENUE PRIOR TO APPROVAL. ANY WORK DONE PRIOR TO APPROVAL IS SUBJECT TO IMMEDIATE REJECTION. ALL INSPECTIONS AND/OR JOB MEETINGS SHALL BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE BY CALLING THE CONSTRUCTION MANAGEMENT DIVISION AT 488-1451. HAVE A REPRESENTATIVE AT THE JOBSITE AT THE SCHEDULED TIME

PERMIT NO. 840721

JOB ADDRESS 2021 S PEACH

INSPECTIONS

Manholes, Drain Inlets, Etc.	@	$75.00/ea	$
Sewer Mains	@	$ .50/L F	$
Water Mains	@	$ .25/L F	$
Backfill Inspection	X		$
Sidewalks	@	$ .20/L F	$
Special Sidewalk (Brick, etc.)	@	$ .10/S F	$
Curbs or Gutters	@	$ .10/L F	$
Curbs & Gutters	@	$ .20/L F	$
Driveway Approach. (curb line distance)	@	$ .60/L F	$
Valley Gutters	@	$ .50/L F	$
Street Lights & Signals	@	$25.00/ea	$
Paved Street	@	$ .02/S F	$
Paved Alley	@	$ .04/S F	$
Other Special Items			$
Total Inspection (Min. [redacted])			$ 67.00

$ 67.00

SURVEYING & STAKING

Sidewalk, curbs gutters & drive approaches	@	$ .22/L F (Min. $60.00)	$
Street or sewer grades	@	$ .22/L F (Min. 360 00)	$
Other			$
Total Survey & Staking			$

TRENCH RESURFACING

Concrete	@	$3.00/ S F (Min. $20.00)	$
Asphalt Concrete	@	$4.00/S F (Min. $20.00)	$
Oil Dirt	@	$3.00/S F (Min. $10.00)	$
Sawcutting	@	$2.00/L F	$
Total Resurfacing			$

TOTAL FEES

Inspection	$
Surveying & Staking	$
Trench Resurfacing	$
TOTAL DUE(3063)	$ 67.00

Permission is hereby granted to the above applicant to do the above described work: In compliance with Art. 2, Chapter 11 of the Fresno Muncipal Code.

PUBLIC WORKS DIRECTOR

By Lacy Salazar ... Date 10/31/84

Inspector BARTON

Date Checked 10-29-84

Stakes Requested —

Party Chief or Eng. —

Work to be done by Street Dept. /

Inspector's Remarks

OPEN CUT ✓ BORE

BY: [redacted] DATE: 10/25/84

LANE CLOSURE FROM 9AM TO 4PM ONLY

SAWCUT Pavement

Replace with 7" A.C. Pavement

Call inspector 24 hrs prior to backfill

Inspector to witness BACKFILL

Accepted by Ellen Baughn Date 11-3-84

Liability Insurance & Performance Bond BK | Zone AE5

Verified by R Lee | Date 10-25 84

Payment Revd:

ROUTING:

(1) Construction Mgmt.
(2) Construction Mgmt.
(3) Construction Mgmt.
(4) Finance
(5) Applicant

RECEIVED
OCT 31 1984
CONSTRUCTION MGMT.

FRESNO COUNTY

PUBLIC WORKS & DEVELOPMENT SERVICES DEPARTMENT

DEVELOPMENT ENGINEERING

"Plot Plan Instructions"
For Non-Commercial Permits

NOTE: First, sketch out your plot plan on scratch paper according to the instructions below. This will help you to draw the final plot plan on the other side of this sheet.

FOUR BASIC STEPS FOR DRAWING A PLOT PLAN ARE:

STEP 1. Draw the outline of your property. Show the sides, front, and rear property lines with their dimensions. Draw in arrow pointing to the north.

STEP 2. If your property is located on a corner, draw in the streets and name each of them.

If your property is located off a corner, draw the fronting street and name it. Then show the nearest intersecting cross-street. Give the distance to it in feet or miles and name it.

STEP 3. **NOTE:** If there are no structures on your property, disregard Step 3.

Locate all existing structures on the property such as corrals, buildings, pens, trailer homes, rentals, etc.

Show how each structure is used. (Example: 2 car garage, shed, home, sleeping room, etc.)

STEP 4. Locate the proposed grading work and drainage facilities on your property.

Give the dimensions of the proposed grading work and drainage facilities.

Give the distance between grading work and drainage facilities to the side, to the front, and to the rear property lines.

Show how each portion of grading work is to be used. (Example: building pad, well pad, driveway, etc.)

Locate all drainage courses coming within 50 feet of the proposed work.

Provide arrows to indicate direction of drainage from pads and driveways.

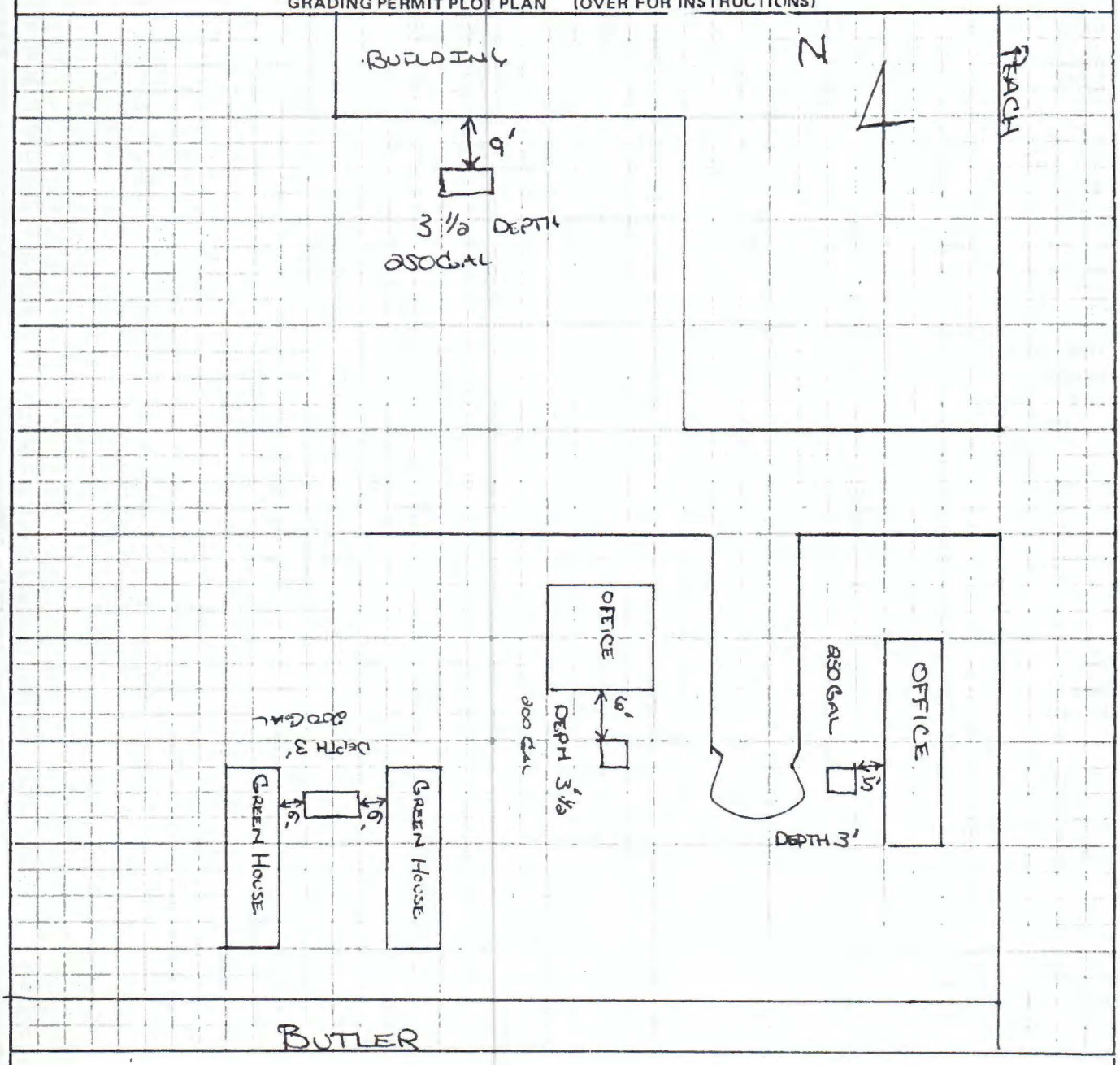
Give the location and size of culverts crossing the street if property drains toward the street.

COUNTY OF FRESNO

PUBLIC WORKS & DEVELOPMENT SERVICES DEPARTMENT

DEVELOPMENT ENGINEERING

GRADING PERMIT PLOT PLAN (OVER FOR INSTRUCTIONS)



I HEREBY STATE, UNDER PENALTY OF PERJURY, THAT THE INFORMATION ABOVE IS CORRECT. I UNDERSTAND THAT A PERMIT MUST BE OBTAINED BEFORE ANY CONSTRUCTION IS STARTED.

SIGNATURE _____ DATE 5-2-85

White – Inspection
Canary – Permittee
Pink – Accounting

OFFICE COMPLETION

SECTION [16] GRADING

SHOW THE RESULT OF ACTION TAKEN FOR EACH TYPE OF INSPECTION

KEY
- [1] APPROVAL
- [2] CORRECTION
- [3] CANCELLATION
- [4] FINAL

TYPE OF IMPROVEMENT [1] [2] [3] [4] [5] [6] [7] (Check one, see section on front)

PROPOSED USE [29] [30] [31] [32] [33] (Use code numbers section from front)

ISSUED DATE (See Front) [34] [35] Month [36] [37] Day [38] [39] Year

INSPECTION RECORD

Consultant No. 40 41	Month 42 43	Day 44 45	Year 46 47	Time 48 49 50	Prog. 51 52	Sub 53 54	Func 55 56	Action 1 2 3 4	Type of Inspection	Remarks

NULL AND VOID PERMIT
AS PER FAC 13-110.110
EXPIRATION OF PERMITS

NO COMPACTION REPORTS

CONSULTANT COMPLETION

TOTAL NUMBER OF INSPECTIONS [66] [67] [68]

TOTAL NUMBER OF CORRECTIONS [69] [70]

PERMIT ~~CANCELLED~~ EXP [71] 3

PERMIT FINALED [72] 4

	CONSULTANT NO	DATE	CONSULTANT SIGNATURE
ADDRESS INSTALLED			
PLANNING REQUIREMENTS			
PUBLIC WORKS REQUIREMENTS			
GRADING ~~FINAL~~ EXP.	[72] [73]	[74] [75] 01 Month [76] [77] 24 Day [78] [79] 03 Year	

950084

GRADING PERMIT

City of FRESNO

DEVELOPMENT DEPARTMENT
2600 FRESNO ST., FRESNO, CA. 93721-3604
PHONE (209) 498-1375

APPLICANT COMPLETE THIS INFORMATION ONLY

AFFIDAVIT

- [x] THE UNDERSIGNED HAS COMPLIED WITH ALL REQUIREMENTS OF WORKER'S COMPENSATION INSURANCE AS PROVIDED BY CALIFORNIA LAW
- [ ] THE UNDERSIGNED IS LICENSED BY THE DIRECTOR OF PROFESSIONAL AND VOCATIONAL STANDARDS TO ENGAGE IN THE CONTRACTING BUSINESS IN THE STATE OF CONTRACTING AND SAID LIC[illegible] AND WILL BE MAINTAINED IN FULL FORCE AND EFFECT DURING THE PERFORMANCE OF WORK AUTHORIZ[illegible] THIS GRADING PERMIT
- [ ] THE UNDERSIGNED IS EXEMPT FROM THE CONTRACTOR'S LICENSING REQUIREMENTS AS PROVIDED IN CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION NO

BUILDING OWNER: USDA	MAILING ADDRESS: 2021 S Peach CITY: Fresno
☐ ARCHITECT ☐ ENGINEER ☐ DESIGNER (IF APPLICABLE) LICENSE NO NAME	MAILING ADDRESS CITY
BUILDING CONTRACTOR: KROEKOR	MAILING ADDRESS: PO 587 W Browning CITY: Fresno
CONTRACTOR'S LICENSE NO: C61/D60	CITY LICENSE NO PHONE NO: 439-0604
CONSTRUCTION LENDER	MAILING ADDRESS CITY

I DECLARE UNDER PENALTY OF PERJURY THAT ALL OF THE FOREGOING IS COMPLETE, TRUE AND CORRECT. I HAVE READ THE ADDITIONAL ATTACHED STATEMENT.

DATED THIS 1st DAY OF May, 19 95

SIGNED [signature] PHONE NO. 439-0604

SPECIAL CONDITIONS

INSPECTION RECORD
REMARKS ON BACK

CITY PLAN CHECK NO.

ADDRESS: 2021 S. Peach

SUITE/UNIT NO.

BLDG NO.

ENGINEER APPROVAL

[signature]

PLANNING APPROVAL

[signature]

VALUATED COST

TOTAL COST OF IMPROVEMENTS
DOLLAR VALUE ONLY

INCLUDES ALL COSTS EXCEPT LAND ☐☐☐☐☐☐☐☐

WORKERS COMP	3149	700
PLAN CHECK	3096	
PERMIT FEE	3095	3100
O T FEE	3096	
PAVING FEE	3095	
INVESTIGATION FEE	3091	
MICROFILM	3374	
SUBTOTAL		3800
2.5% GENERAL PLAN	3172	95
2.5% PERMIT MANAG	3173	95
TOTAL		$ 3990

ACCT NO

PERMIT NUMBER 950084 ISSUE DATE 5-3-95

ENGINEERING INSPECTION COPY

1 ADDRESS NUMBER: 2021 | 6 DIR: S | 7 STREET NAME: PEACH

22 ZIP CODE: 93 | 24 ACESSOR'S PARCEL NO.: 477 | 030 | 07

1. PURPOSE OF GRADING: TANK Removal

2. PLANS BY CIVIL ENGINEER	STATE LICENSE
ADDRESS	PHONE
3. GEOLOGIST / GEOTECHNICAL ENGINEER	PHONE
4 APPROVED SOIL TESTING AGENCY	PHONE

5. CUT 15 NUMBER OF CUBIC YARDS FILL 15

6. COMPACTION REQUIRED
SOIL ____ % A.C. ____ % AGGR. BASE ____ % NA ____

7. RETAINING WALL ☐ YES ☐ NO
REQUIRED WALL ☐ YES ☐ NO

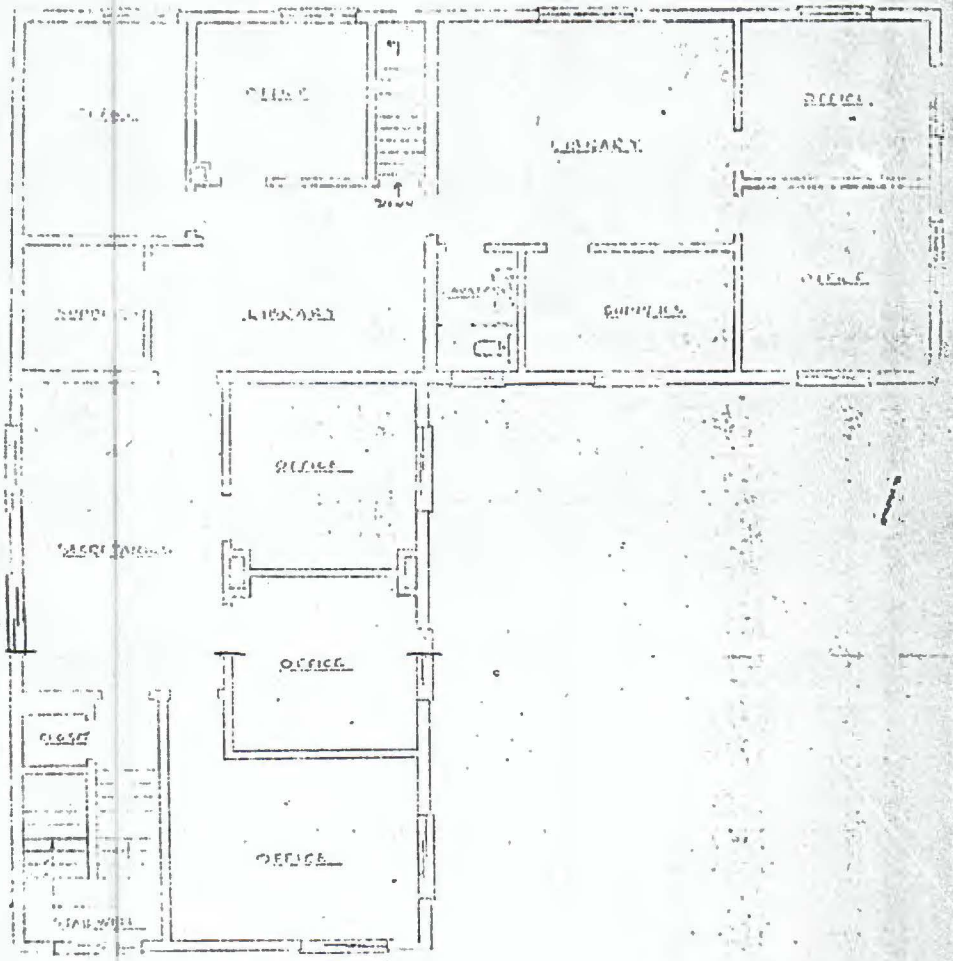
8. MAXIMUM SLOPE
RATIO = HORIZONTAL TO VERTICAL NA

9. BASEMENT / SWIMMING POOL / OTHER ____
WALLS RETAINING ☐ YES ☐ NO BROKEN FLOOR ☐ YES ☐ NO
ENGINEERED FILL ☐ YES ☐ NO FLOOR REMOVED ☐ YES ☐ NO

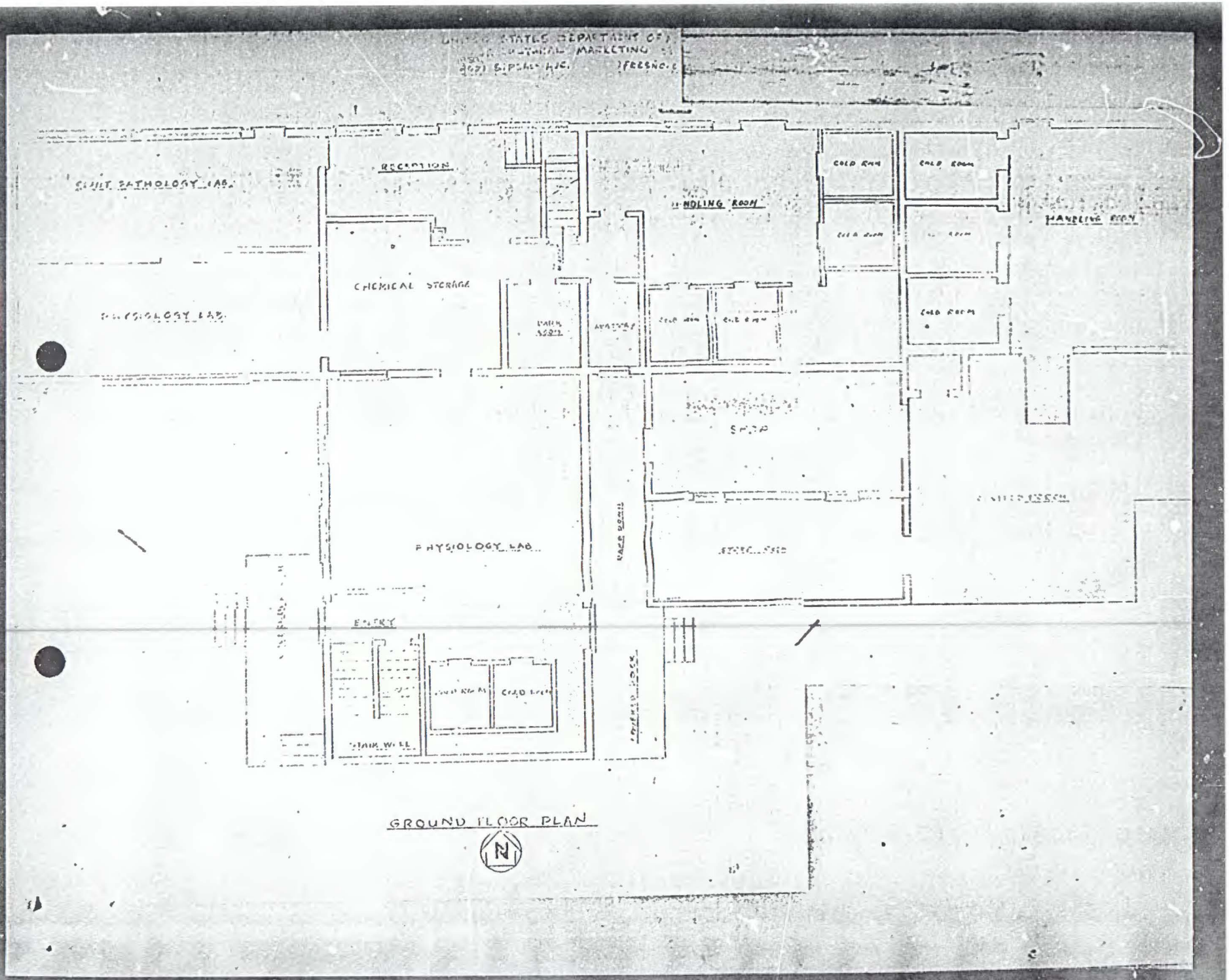
COMMENTS:

- [ ] PROVIDE "AS GRADED" PLANS TO CITY OF FRESNO UPON COMPLETION OF GRADING
- [x] PROVIDE COMPACTION REPORTS TO THE CITY OF FRESNO FROM APPROVED TESTING AGENCY
- [ ] A.C. STRUCTURAL SECTION SHALL BE INSPECTED AND CERTIFIED BY THE ENGINEER OF RECORD
- [ ] HOLD ON OCCUPANCY WILL BE IN EFFECT UNTIL "AS-GRADED" PLANS AND COMPACTION REPORTS HAVE BEEN RECEIVED AND APPROVED BY THE CITY OF FRESNO

SOUTH BUILDING
UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
2021 S. PEACH AVE. FRESNO, CALIFORNIA



SECOND STORY PLAN


RECEPTION
CHEMICAL STORAGE
PHYSIOLOGY LAB.
PHYSIOLOGY LAB.
ENTRY
COLD ROOM
COLD ROOM
COLD ROOM
COLD ROOM
HANDLING ROOM
SHOP
STORE ROOM
GROUND FLOOR PLAN
N

TO: Mr. Schiff
FROM: Wm. Pennington
PAGE: Two
DATE: June 21, 1960

4. The trashcan used in shop should always be covered with a lid.

5. All loosely-thrown material on the outside rear area of the structure be removed.

6. Should you decide on Item #3 (b), the present 4 lb. fire extinguisher would then suffice in the rear work shop.

7. Have all fire extinguishers hung on walls, height not to exceed 5' 2" on the top portion of extinguisher. All extinguishers to be serviced annually, or immediately after each use, by a competent employee or a commercial firm.

If any additional assistance is desired, please do not hesitate to call this office.

Very truly yours,

Wm. Pennington
State Forest Ranger

12/b

COPY

210 South Academy Ave.
Sanger, California

June 20, 1960

Mr. Leonard Schiff, Project Supervisor
U. S. Dept. of Agriculture Research Service
4816 East Shields Avenue
Fresno, California

Dear Mr. Schiff:

At your request, a Fire Prevention Inspection of your premises was made by a representative of this department, acting in behalf of the Mid Valley County Fire Protection District, a political subdivision of Fresno County. Our recommendations are as follows:

1. The office area can be adequately protected with the 2½ gal. soda-acid type extinguisher. We suggest that it be relocated in the front portion of the office.

2. The chemical-type extinguisher should remain in the laboratory; but locate in a conspicuous place.

3. In regard to the area in the back of the office now being used for general storage and repair shop. Normally these functions are in the Group F, Div. II, of the Uniform Building Code, however, you are exceeding the limitation by allowing welding and open flame. This falls in the same group, but in Div. I, therefore, our recommendations are:

   (a) The structure either be converted to be accepted for that type occupancy, or

   (b) That no welding be allowed inside the building; and that all flammable material--paints, thinners, etc. be housed on the outside of the building in a metal cabinet, properly ventilated; and with "no smoking" signs posted conspicuously.

COPY

Edmund G. Brown
xxxxxxxxxxxxx

xxxx

210 South Academy Avenue
Sanger, California

July 8, 1960

Mr. Leonard Schiff, Project Supervisor
U.S. Dept. of Agriculture Research Service
4816 East Shields Avenue
Fresno, California

Dear Mr. Schiff:

Since our inspection letter of June 20, 1960, we have continued to study the precautionary measures to be taken for the protection of your personnel as well as firemen entering the building during the period that you may have the radio active capsule in the concrete pit located at the southwest corner of your building.

Official sources advises that a two (2) inch lid of lead shielding is necessary over the pit while the capsule is being stored. This will shield the capsule from fire or heat, as well as give the firemen protection from any radiation from the capsule caused by heat or fire falling into the pit.

If any additional assistance is desired, please do not hesitate to call this office.

Very truly yours,

Wm. Pennington
State Forest Ranger

12/d

COPY

Dr. J. H. Weinberger, Horticulturist January 10, 1968

prior to purchase. We do not believe any money saved in buying this type fire extinguisher would be considered good Fire Prevention practices.

We enjoyed inspecting your plant with you and will make a reinspection of your installation approximately one year from this date, if you so desire.

Very truly yours,

WM. PENNINGTON
STATE FOREST RANGER

SO/lvb

cc: Assistant Ranger Armstrong

STATE OF CALIFORNIA—RESOURCES AGENCY

Ronald Reagan, Governor
EDMUND G. BROWN, Governor

DEPARTMENT OF CONSERVATION
DIVISION OF FORESTRY
210 South Academy Avenue
Sanger, California 93657

January 10, 1968

Re: FIRE PREVENTION
Inspections

Dr. J. H. Weinberger, Horticulturist
Crops Research Division
2121 South Peach Avenue
Fresno, California

Dear Sir:

A Fire Prevention inspection was made of buildings at the Department of Agriculture property located at 2121 South Peach Avenue, Fresno, on January 5th, 1968, by our Fire Prevention Officer and Staff. We found several minor deficiencies that we would like to call to your attention and they are listed as follows:

(1) The automobile garage assigned to one of your employees living on the premises should be cleaned up and any unwanted material should be disposed of. We feel that automobile garages should always be kept in a tidy condition, since we experience many fires in garages.

(2) Acquire an additional Soda Acid fire extinguisher for your main office and it should be hung in a conspicuous location at a height not greater than 5' 2" from the floor. All fire extinguishers must be serviced annually or immediately after any use, whichever comes first.

(3) Install a fire hydrant for use by our Fire Department at a location nearest to the front of your buildings so that in the event a fire department may have to combat a fire on your premises sufficient water may be acquired from your 16,000 gallon reservoir. Chances are that we will probably draft water directly from your reservoir; however, there is a chance that in a future date the opening to the reservoir may be obstructed from either a building, of a structure, or growing of plants. In any event, we are looking towards the availability of an adequate source of water from a hydrant, if at all possible.

As we indicated to you during our visit, minimum size of the male outlet should be 2½" national standard gate valve.

Relative to your question as to the Bromotrifluoromethane fire extinguisher. Be advised we have researched this information and have determined that it is a chemical substance formerly known as Freon-13B1 and is now known as Bromotrifluoromethane. Other names that this extinguisher has been classified under has been Halon 1301 and Bromotri. It was originally developed for use in aircraft engine fires and flammable liquid and electrical fires. It is rated as high relative effectiveness by the Army and is described in the literature as a liquefied gas and like Carbon Dioxide that discharges like a gas.

We are not acquainted with this type fire extinguisher and we are not recommending that you buy this fire extinguisher as a surplus item unless you test the equipment

Mr. John M. Harvey, Investigation Leader January 10, 1968

that you may continue to burn office paper and debris within the Fire District requirements.

Even though we have listed six deficiencies, as indicated above, we feel you have a hazard-free building and we are very proud that you are in our Fire Protection District.

We will not make a reinspection, as we normally do to determine if these deficiencies have been complied with, since we feel you and your people can very competently rectify any existing hazard.

Therefore, we will make a reinspection next year or during any other time you may request this office to assist you again.

Very truly yours,

WM. PENNINGTON
STATE FOREST RANGER

WP/lvb

STATE OF CALIFORNIA—RESOURCES AGENCY

Ronald Reagan, EDMUND G. BROWN, Governor

DEPARTMENT OF CONSERVATION
DIVISION OF FORESTRY

210 South Academy Avenue
Sanger, California 93657

January 10, 1968

Re: FIRE PREVENTION
Inspections

Mr. John M. Harvey, Investigation Leader
Market Quality Division
U. S. Department of Agriculture
2021 South Peach Avenue
Fresno, California

Dear Mr. Harvey:

A Fire Prevention inspection was made of the premises occupied by the Department of Agriculture, including all buildings under your supervision, on January 5th, 1968. This inspection was requested by yourself and we were very happy to assist you in carrying out this inspection in order to develop and expose any fire hazard which could exist.

We have listed below several minor deficiencies that we feel should be eliminated in order to make your premises completely hazard free.

(1) Do not allow any cardboard containers to be used as wastepaper baskets.

(2) The door of the basement should be closed at all times and a sign on the door should indicate this order. Further, identify that door as "basement" so that everyone will always know where the door leads to.

(3) Relocate the compressor to a building now used for housing equipment and another compressor. We have always felt that compressors should never be located under a building where people are assigned to work in. Fire Departments experience many fires started by compressors and the pathetic part about this is that it may burn for several hours before they are detected or to a period when it is too late to do anything with a fire. We feel this deficiency is of great importance and we would certainly like to recommend that you take immediate action to eliminate the compressor now located in your basement area.

(4) Immediately do away with several Carbon Tetrachloride fire extinguishers now located within your building. They are extremely dangerous to work with and are illegal for use by any one other than Pacific Gas & Electric employees and Fire Departments.

(5) Hang all fire extinguishers on walls in conspicuous locations at a height not greater than 5' 2" from the top of the fire extinguisher. These fire extinguishers must be serviced immediately after any use or annually, whichever comes first.

(6) Acquire a Fire Permit from the nearest Mid Valley Fire District station so

FIRE PREVENTION PERMIT

City of FRESNO

FIRE DEPARTMENT
450 "M" STREET FRESNO, CA 93721
PHONE (209) 498-1023

2nd

1 ADDRESS NUMBER: 2021 | 6 DIR: S | 7 STREET NAME: PEACH | 22 ZIP CODE:

JOB ADDRESS: 2021 S. Peach

SUITE/UNIT NO.

BLDG. NO.

TYPE OF IMPROVEMENT

1 ☐ NEW BUILDING
2 ☐ ADDITION
3 ☐ ALTERATION
4 ☐ REPAIR
5 ☐ DEMOLITION
6 ☐ RELOCATION
7 ☐ FOUNDATION ONLY
8 ☐ TENANT IMPROVEMENT X Tanks
9 ☐ NOTICE & ORDER
10 ☐ BLDG MAINTENANCE
11 ☐ PERMIT RENEWAL
12 ☐ FIRE REPORT
13 ☐ H.C.D.
14 ☐ PRE-SEWER
15 ☐ RE-ROOFING

PROPOSED USE

RESIDENTIAL

1001 ☐ ONE FAMILY ☐ PUD 77
1003 ☐ TWO OR MORE FAMILY ENTER NO OF UNITS ☐☐☐

1010 ☐ MOTEL, HOTEL 77
1020 ☐ DORMITORY ENTER NO OF UNITS ☐☐☐

1000 ☐ SWIMMING POOL

NON-RESIDENTIAL 72

0101 ☐ BANK

☐☐☐☐ ☐ DOCTOR'S OFFICES
☐☐☐☐ ☐ HOSPITAL, INST
☐☐☐☐ ☐ INDUSTRIAL
☐☐☐☐ ☐ INTERIOR
☐☐☐☐ ☐ OFFICE AND PROF.

4000 ☐ PUBLIC UTILITY
7000 ☐ RECREATIONAL
0001 ☐ RELIGIOUS
0401 ☐ REPAIR GARAGE
0101 ☐ RESTAURANT
0200 ☐ RETAIL
0100 ☐ SCHOOL/LIBRARY/EDUC
0101 ☐ SERVICE STATION
☐☐☐☐ ☐ SHELL
7401 ☐ SWIMMING POOL
☐☐☐☐ ☐ WAREHOUSE
0100 ☐ WHOLESALE
☐☐☐☐ ☐ OTHER-SPECIFY
Tanks

TOTAL SQ FT OF FLOOR AREA ------

ITEM			UNITS	FEE
UNDERGROUND FIRE SERVICE MAINS				
3" DIA. OR LARGER	$20 + $.60/ft	X	ft =	
2 1/2" DIA OR SMALLER	$20 + $.40/ft	X	ft =	
HYDRANTS	$20 EA	X	=	
FIRE SPRINKLER SYSTEMS				
SPRINKLER HEADS	$20 + $.80¢ EA	X	=	
OVERHEAD PRESSURE TEST	$20 EA	X	=	
CENTRAL STATION SUPERVISION	$20 EA	X	=	
LOCAL ALARM	$20 EA	X	=	
PREACTION, DELUGE VALUE ETC.	$50 EA	X	=	
FOAM SYSTEM	$80 EA	X	=	
PUMPS				
DIESEL (LISTED)	$200 EA	X	=	
ELECTRIC (LISTED)	$160 EA	X	=	
ELECTRIC UNLISTED			$80 =	
WATER STORAGE TANK, SUCTION, AUTO FILL ETC.			$80 =	
CO_2, HALON, ETC.	$50/TEST	X	=	
ALARM SYSTEMS			=	
PANELS	$20 EA	X	=	
DEVICES 0 TO 20	$5 EA	X	=	
DEVICES EACH ADDITIONAL DEVICE OVER 20	$3 EA	X	=	
MINI HORNS	$1 EA	X	=	
FLAMABLE LIQUID TANKS (ABOVE GROUND)			$80 =	80
CONSULTATION	$40/HR	X	=	
PLAN CHECK	$40/HR	X	.5 =	20
OTHER (SPECIFY)			=	
OTHER SPECIFY)			=	
SUB-TOTAL	FIRE PROTECTION SYSTEMS			100

COUNTER		$ 13 00
FIRE PROTECTION SYSTEMS		$ —
OTHER		$ —
FIRE	3150	$ 100 —
(SUBTOTAL)		$
ELECTRICAL	3040	$
PLUMBING	3052	$
		$
TOTAL		$ 113 00

ACCT NO

PERMIT NUMBER

ISSUE DATE 10-1-91

FIRE CONSULTANT'S COPY

AFFIDAVIT

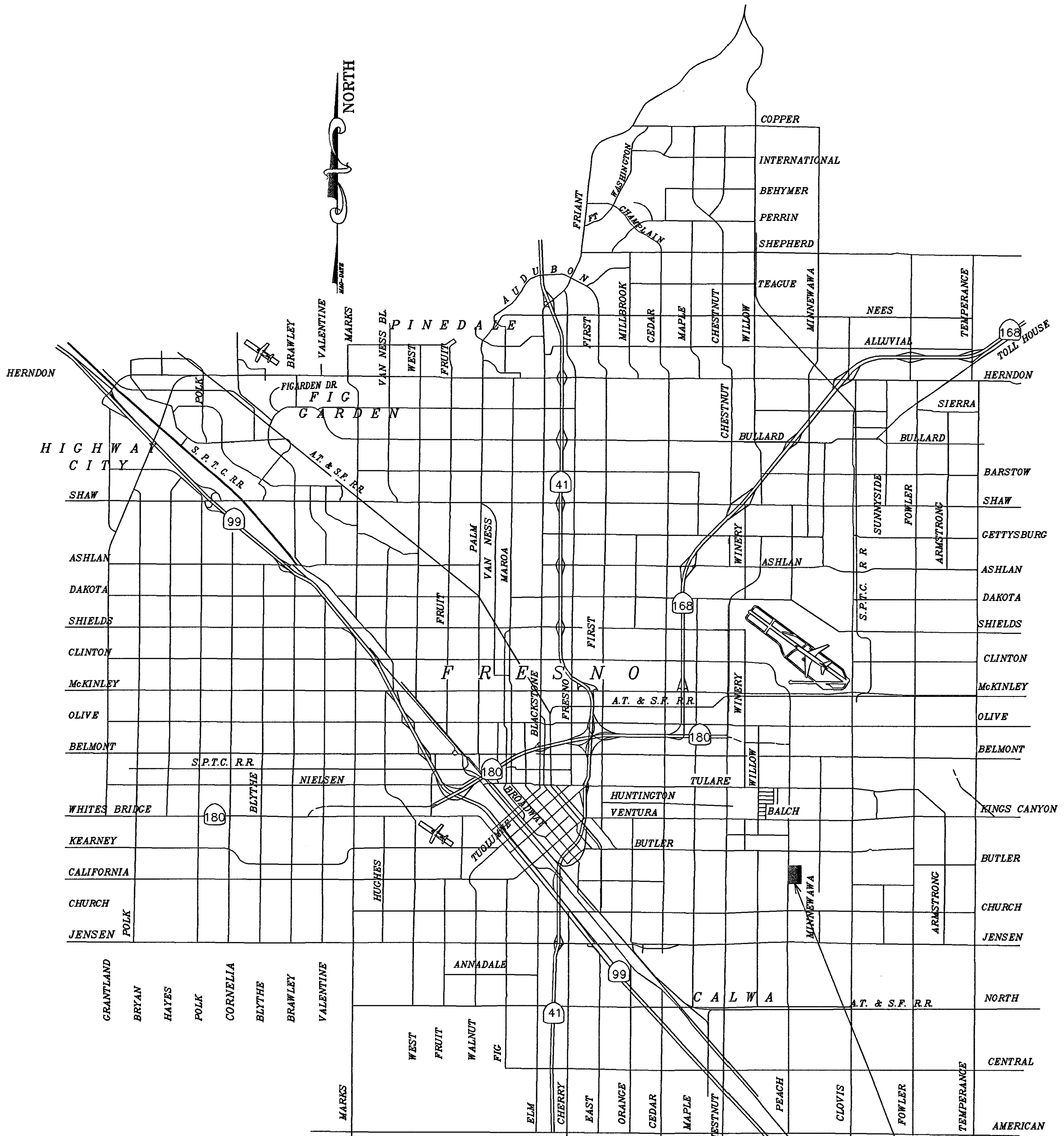
☐ THE UNDERSIGNED HAS COMPLIED WITH ALL REQUIREMENTS OF WORKER'S COMPENSATION INSURANCE AS PROVIDED BY CALIFORNIA LAW.
☐ THE UNDERSIGNED IS LICENSED BY THE DIRECTOR OF PROFESSIONAL AND VOCATIONAL STANDARDS TO ENGAGE IN THE CONTRACTING BUSINESS IN THE STATE OF CALIFORNIA AND SAID LICENSE IS AND WILL BE MAINTAINED IN FULL FORCE AND EFFECT DURING THE PERFORMANCE OF WORK AUTHORIZED BY THIS FIRE PERMIT.
☐ THE UNDERSIGNED IS EXEMPT FROM THE CONTRACTOR'S LICENSING REQUIREMENTS AS PROVIDED IN CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION NO

BUILDING OWNER: U.S.D.A.-ARS-FRESNO
MAILING ADDRESS: 2021 So. Peach Ave
CITY: Fresno, Ca. 93727
CONTRACTOR OR COMPANY: Crisp Construction Inc.
MAILING ADDRESS: P.O. Box 1066
CITY: Visalia, Ca 93279
CONTRACTOR'S LICENSE NO: Class A 567426
CITY LICENSE NO:
PHONE NO: 209-734-6381

I DECLARE UNDER PENALTY OF PERJURY THAT ALL THE FOREGOING IS COMPLETE, TRUE AND CORRECT. I HAVE READ THE ADDITIONAL ATTACHED STATEMENT.

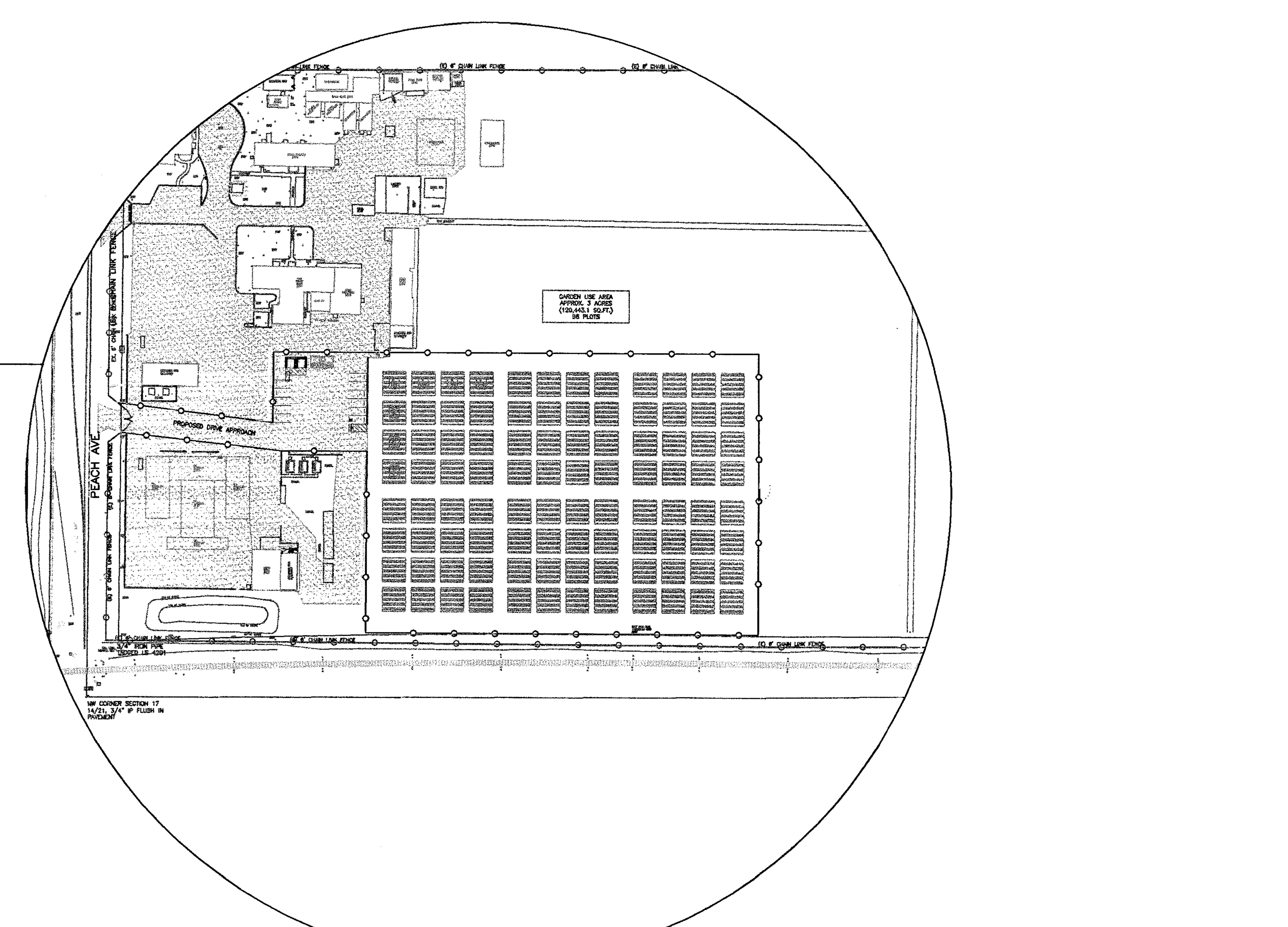
DATED THIS 1 DAY OF Oct. 19 91

SIGNED [signature] PHONE NO 209-734-6381



VICINITY MAP

NOT TO SCALE



CITY OF FRESNO

DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION OF COMMUNITY GARDEN

2021 SOUTH PEACH AVENUE
A.P.N. 47303007T
ZONING AE-5
PLANNED USE: PUBLIC FACILITY

PROPERTY OWNER: CITY OF FRESNO
PROPERTY CONTACT: RANDALL COOPER
CONTACT ADDRESS: 2326 FRESNO STREET, RM 101
FRESNO, CA 93721
PHONE: (559) 621-2900

INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1
EXISTING SITE TOPO	2
SITE IMPROVEMENTS	3
IRRIGATION LAYOUT	4

GENERAL CONSTRUCTION NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, THE CITY OF FRESNO STANDARD SPECIFICATIONS, DRAWINGS AND SPECIAL PROVISIONS AND THE FRESNO IRRIGATION DISTRICT'S ENGINEERING HANDBOOK OF SPECIFICATIONS.

2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS AND SHALL PROVIDE PROTECTION PRIOR TO, DURING, AND AFTER TRENCHING, JACKING AND/OR BORING. CONTACT UNDERGROUND SERVICE ALERT TOLL FREE AT 811, 48 HOURS BEFORE EXCAVATING.

3. PERMITS MUST BE OBTAINED AND FEES PAID IN ACCORDANCE WITH ORDINANCES OF THE CITY OF FRESNO.

4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISITNG STREET SIGNS DURING CONSTRUCTION AND TO REPLACE ANY ITEMS THAT ARE DAMAGED DURING CONSTRUCTION.

5. STRIPING MODIFICATIONS, WHERE NOTED ON THE PLANS, SHALL BE PERFORMED BY THE CONTRACTOR.

6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.

7. ALL STREETS SHALL BE SURFACED IN ACCORDANCE WITH THIS PLAN AND THE CITY OF FRESNO SPECIFICATIONS.

8. INITIAL COMPACTION TESTS SHALL BE PAID FOR BY THE CITY, ANY REQUIRED RETESTS SHALL BE PAID FOR BY THE CONTRACTOR.

9. APPROVAL OF THESE PLANS SHALL IN NO WAY BE CONSTRUED AS A GRANT BY THE CITY OF ANY RIGHTS TO THE CONTRACTOR TO TRESPASS UPON LAND RIGHTFULLY IN THE POSSESSION OF, OR OWNED BY ANOTHER, WHETHER SUCH LAND IS PRIVATELY OR PUBLICLY OWNED. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY ADJACENT PROPERTY OWNER GIVING HIM PERMISSION TO ENTER HIS PROPERTY FOR PURPOSE OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THESE PLANS AND TRANSITIONS THERETO. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF OWNERS PERMISSION PRIOR TO START OF WORK.

10. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA.

11. CONTRACTOR SHALL REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE IMPROVEMENTS, AS DETERMINED BY THE CONSTRUCTION MANAGEMENT ENGINEER, PRIOR TO OCCUPANCY.

12. ALL WORK SHALL COMPLY WITH 2007 CBC, CFC, CPC, CMC, AND CEC.

SYMBOL LEGEND

PP	POWER POLE	ELP	ELECTRIC PANEL FACE
WV	WATER VALVE	GV	GAS VALVE
IV	IRRIGATION VALVE	HB	HOSE BIB
TV	CABLE TV PULLBOX		SHRUB
GP	GUARD POST		IRRIGATION VALVE BOX
WELL	WELL	EMB	ELECTRIC METER BOX
E	ELECTRIC PULLBOX	GM	GAS METER
GP	GUY POLE		ELECTRIC UNDER GROUND (USA MARK)
GA	GUY ANCHOR		GAS UNDER GROUND (USA MARK)
	GATE	LP	LAMP POST
	IRRIG.STD PIPE		CONIFEROUS TREE
	RAIL ROAD CROSSING SIGNAL WITH ARM		TREE STUMP
JP	JOINT POLE	SV	SEWER VENT
	DECIDUOUS TREE	ELR	ELECTROLIER
D	STORM DRAIN MANHOLE	W	WATER METER
S	SEWER MANHOLE	TRB	TELEPHONE RISER BOX
SCO	SEWER CLEANOUT	OHG	OVERHEAD GUY
	SIGN (AS DESCRIBED)	TP	TELEPHONE POLE
	PALM TREE		GAS UNDERGROUND SIGN
PC	PROPERTY CORNER (AS DESCRIBED)	DI	STORM DRAIN INLET
SC	SECTION CORNER (AS DESCRIBED)	BFP	BACK FLOW PREVENTER

ABBREVIATION LEGEND

AC	ASPHALT CONCRETE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	BEARING
B SW	BOTTOM OF SWELL
B.F.P.	BACK FLOW PREVENTER
BM	BENCHMARK
BP	BEGINING POINT
BTM	BOTTOM
C	CURB
C&G	CURB & GUTTER
CL	CENTER LINE
CON	CONCRETE
DI	DUCTILE IRON
DIA.	DIAMETER
DWG	DRAWING
E	EXISTING
EL.	ELEVATION
ELEV.	ELEVATION
EP	END POINT
F	FUTURE
FBR	FIBER OPTIC FACILITIES
FL	FLOW LINE
G	GUTTER
GB	GRADE BREAK
GND	GROUND
I.D.	INSIDE DIAMETER
INV.	INVERT
L	LENGTH
MIN.	MINIMUM
M.S.	METERING STATION
NO.	NUMBER
O.C.	ON CENTER
P	PAVEMENT
P.W.	PUBLIC WORKS
R.C.	REINFORCED CONCRETE
S	SLOPE
SCH	SCHEDULE
SPEC.	SPECIFICATION
STA.	STATION
STD.	STANDARDS
TP	TOP
TYP	TYPICAL
USGS	UNITED STATES GEOLOGICAL SURVEY
W.M.	WATER METER
W/	WITH

BENCHMARKS

BASIS OF ELEVATIONS IS A FRESNO CITY BRASS CAP MONUMENT, BM #576 ON CURB WEST SIDE OF PEACH AVE, 103" NORTH OF CALIFORNIA ALIGN, 76' NORTH OF THE RAILROAD TRACKS. ELEVATION = 306.878

Call Two Working Days Before You Dig!

DIAL 8-1-1

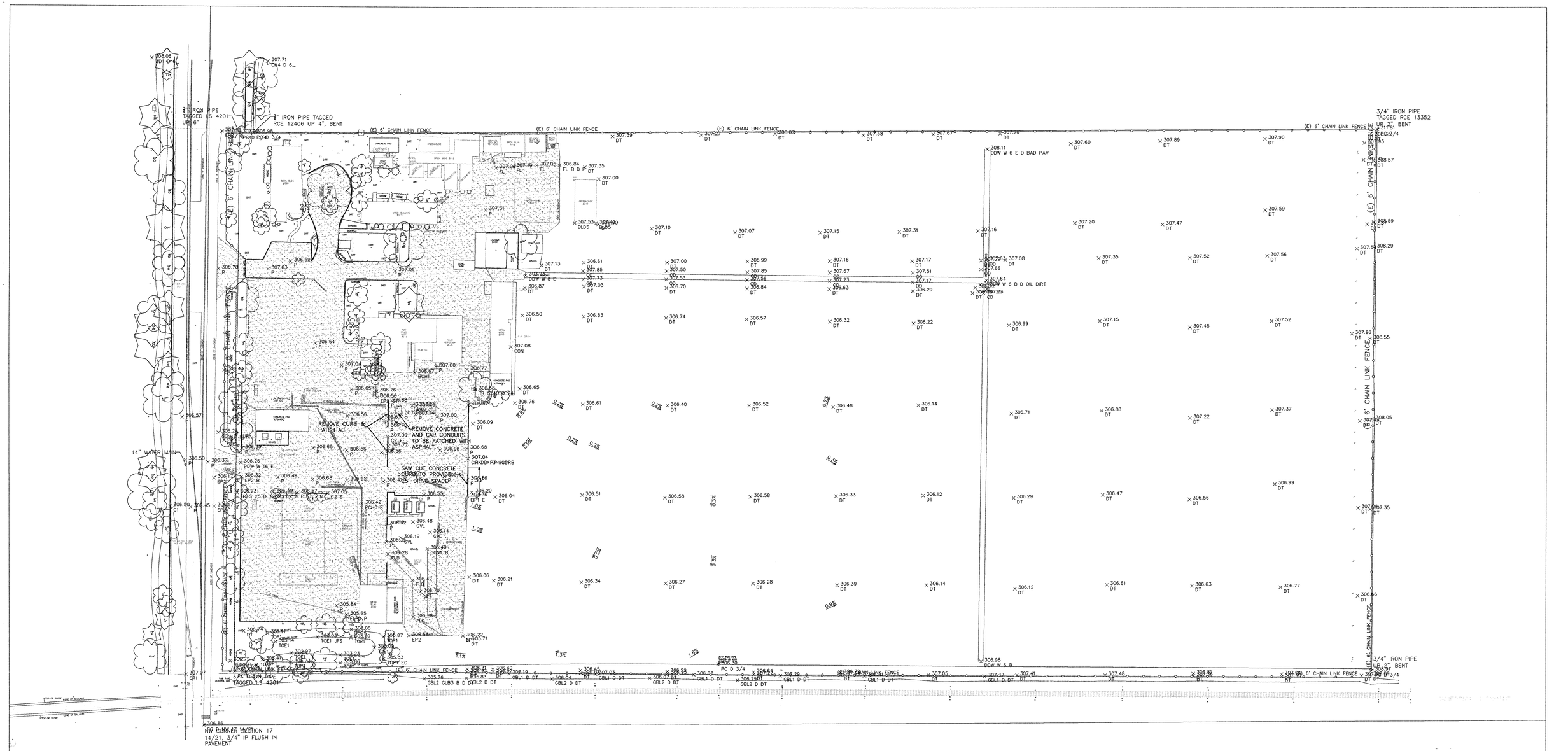
APPROVED
CITY OF FRESNO
DEVELOPMENT DEPARTMENT
JUL 23 2009

Any changes to these plans must be approved by the Development Department. The issuance of a permit does not grant to any person the right to violate City or State Laws.
By ____

CITY OF FRESNO
DEVELOPMENT DEPARTMENT
BACK CHECKED
DATE 7-23-09
STRUCTURAL 40
BUILDING
MECHANICAL
ELECTRICAL
PLUMBING
PROJECT DEVEL
GRADING
PLANNING/ZONING

09 5632 2021 S PEACH

PW File No. Proj. ID. PC00084 Fund 30136 Org. 179901 Ref. & Rev.	CITY OF FRESNO	Department of Public Works	
	CONSTRUCTION OF COMMUNITY GARDENS 2021 SOUTH PEACH AVENUE COVER	Reviewed By Project Engineer [signature] EIT Dr. By: RWM Ch. By: Date: 7/14/09 Scale: As Noted	Sheet No. 1 of 4 Sheets X-E-XX



CONSTRUCTION SYMBOLS

- 6-FOOT CHAIN LINK FENCE
- RAILROAD TRACKS
- PROPERTY LINE
- SECTION LINE
- EXISTING ASPHALT AREA

APPROVED
CITY OF FRESNO
DEVELOPMENT DEPARTMENT
JUL 23 2009

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By _____

CITY OF FRESNO
DEVELOPMENT DEPARTMENT
BACK CHECKED
DATE _____
STRUCTURAL _____
BUILDING 40
MECHANICAL _____
ELECTRICAL _____
PLUMBING _____
PROJECT DEVEL _____
GRADING _____
PLANNING/ZONING _____

SCALE IN FEET
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PW File No.
Proj. ID. PC00084
Fund 30136
Org. 179901
Ref. & Rev.

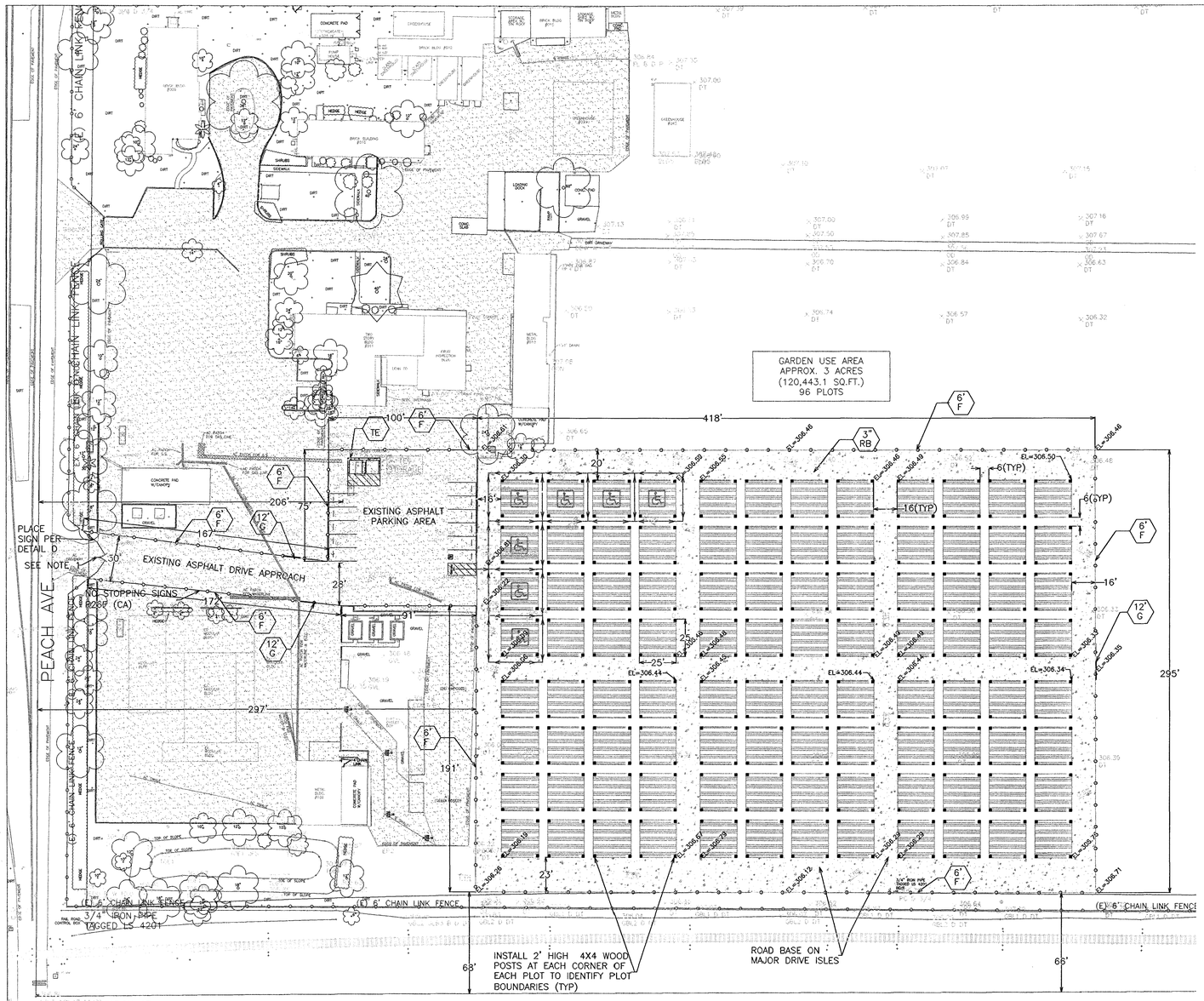
CITY OF FRESNO
Department of Public Works

CONSTRUCTION OF
COMMUNITY GARDENS
2021 SOUTH PEACH AVENUE
EXISTING SITE TOPO

Reviewed By
Project Engineer

Dr. By: RWM
Ch. By:
Date: 7/14/09
Scale: As Noted

Sheet No. 2 of 4 Sheets
X-E-XX



NOTES:

1. PROVIDE APPROVED POLICE/FIRE BYPASS LOCK ("BEST" PADLOCK MODEL 21B700 SERIES OR ELECTRIC CYLINDER SWITCH MODEL 1W7B2) ON DRIVE ACCESS GATE/S.

2. ALL PRIVATE STREETS AND DRIVEWAYS THAT ARE PROVIDED FOR COMMON ACCESS AND ARE REQUIRED FOR FIRE DEPARTMENT ACCESS SHALL BE CONSTRUCTED TO A MINIMUM UNOBSTRUCTED WIDTH OF 20 FEET. FOR DRIVES SEPARATED BY A MEDIAN, 15 FOOT MINIMUM LANES ARE REQUIRED.

3. STREETS LISTED SHALL BE IDENTIFIED AS FIRE LANES AS PROVIDED IN THE CALIFORNIA VEHICLE CODE, SECTION 22500.1. DESIGNATE CURBS AS FIRE LANES (RED CURB WITH "FIRE LANE" IN 3 INCH WHITE LETTERS EVERY 50 FEET OR APPROVED SIGNS EVERY 50 FEET).

4. PROVIDED NOTE ON SITE PLAN: PROVIDE SIGN(S) (17"X22" MINIMUM) AT ALL PUBLIC ENTRANCE DRIVES TO THE PROPERTY WHICH STATE "WARNING – VEHICLES STOPPED, PARKED OR LEFT STANDING IN FIRE LANES WILL BE IMMEDIATELY REMOVED AT OWNER'S EXPENSE – 22658(a) CALIFORNIA VEHICLE CODE – FRESNO POLICE DEPARTMENT 621-2300."

5. LOADING ZONES SHALL NOT BE LOCATED IN REQUIRED FIRE LANES.

6. NO HEAVY EXCAVATION IS TO BE CONDUCTED IN THE FIELD AREA. EXISTING ELEVATIONS ARE TO BE MAINTAINED.

7. ALL PATHWAYS ALONG THE ADA ACCESSIBLE PATH OF TRAVEL SHALL NOT HAVE A PATHWAY SLOPE GREATER THAN 5% OR A CROSS SLOPE GREATER THAN 2%.

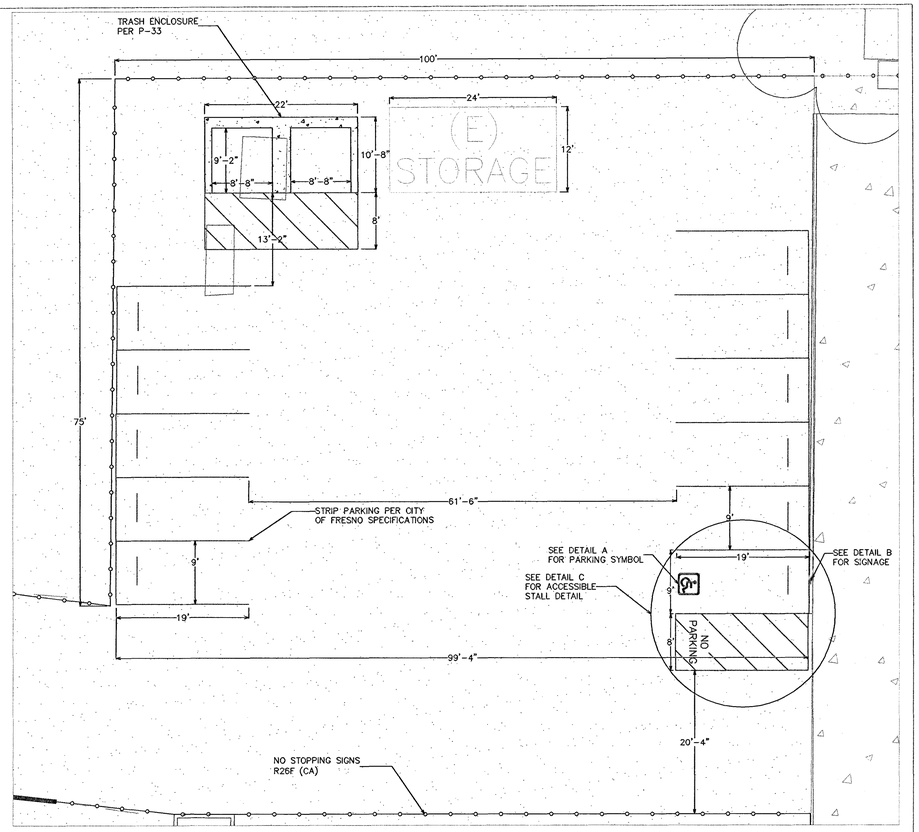
PROPOSED SIGNAGE
NO OVERNIGHT PARKING
NO STORAGE IN PARKING LOT

CONSTRUCTION SYMBOLS

- 6' F — INSTALL 6-FOOT CHAIN LINK FENCE
- 3" RB — INSTALL 3-INCH COMPACTED LAYER OF ROAD BASE
- BD — INSTALL SUNCAST CORPORATION 10 FOOT BY 10 FOOT STORAGE BUILDING MODEL A01B28C03
- 12' G — INSTALL 12 FOOT SWING GATE.
- TE — INSTALL TRASH ENCLOSURE CURB ONLY PER CITY OF FRESNO STANDARD P-33

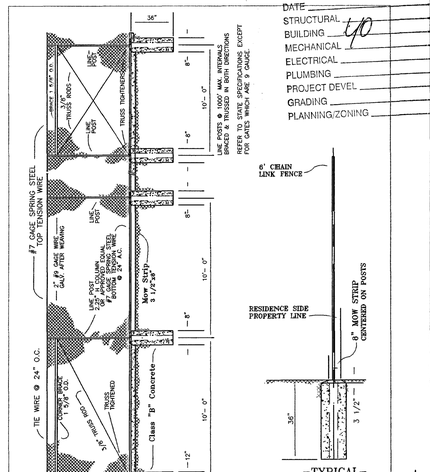
CONSTRUCTION SYMBOLS

- 6-FOOT CHAIN LINK FENCE
- RAILROAD TRACKS
- PROPERTY LINE
- SECTION LINE
- EXISTING ASPHALT AREA
- PROPOSED ROAD BASE
- GARDEN PLOT
- ADA ACCESSIBLE GARDEN PLOT
- ADA ACCESSIBLE PATH OF TRAVEL



PARKING LOT LAYOUT

SCALE: 1"=10'

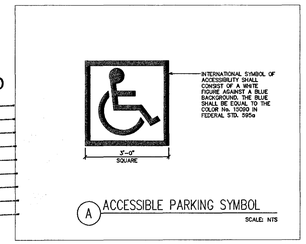


CHAIN LINK FENCE CONSTRUCTION DETAILS

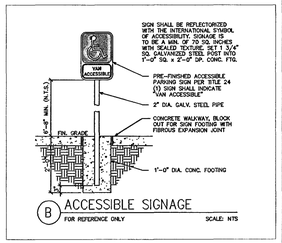
REF. & REV. AUG., 2002

CITY OF FRESNO P-45

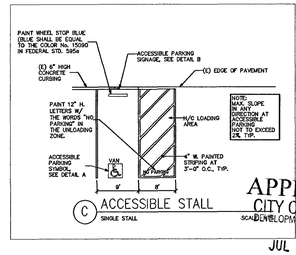
CITY OF FRESNO
DEVELOPMENT DEPARTMENT
BACK CHECKED
DATE
STRUCTURAL
BUILDING
MECHANICAL
ELECTRICAL
PLUMBING
PROJECT DEVEL.
GRADING
PLANNING/ZONING



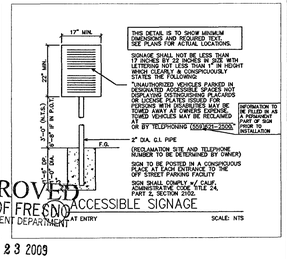
A ACCESSIBLE PARKING SYMBOL — SCALE: NTS



B ACCESSIBLE SIGNAGE — FOR REFERENCE ONLY — SCALE: NTS



C ACCESSIBLE STALL — SINGLE STALL — SCALE: NTS



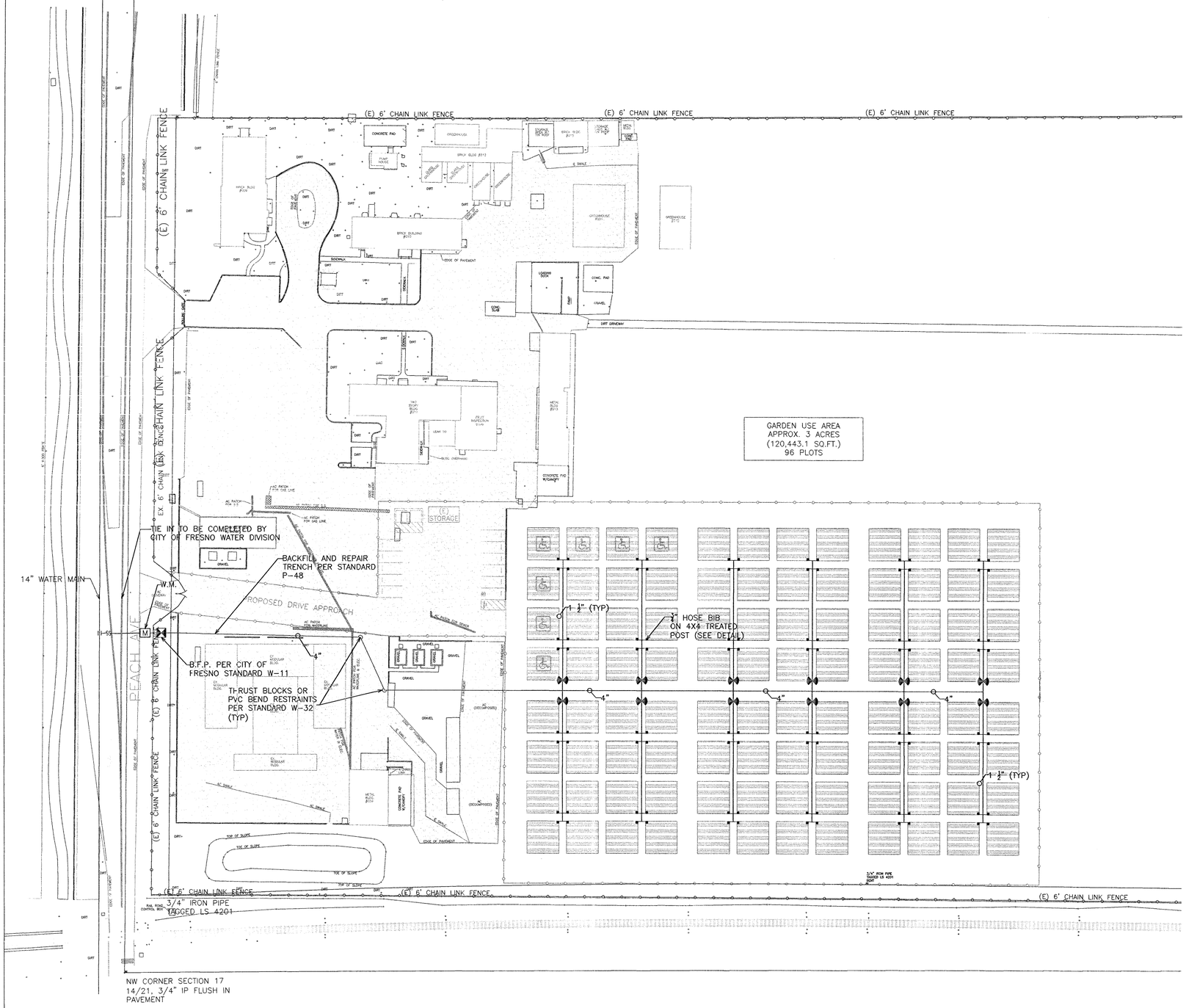
C ACCESSIBLE SIGNAGE — AT ENTRY — SCALE: NTS

APPROVED
CITY OF FRESNO
DEVELOPMENT DEPARTMENT
JUL 23 2009

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By

SCALE IN FEET
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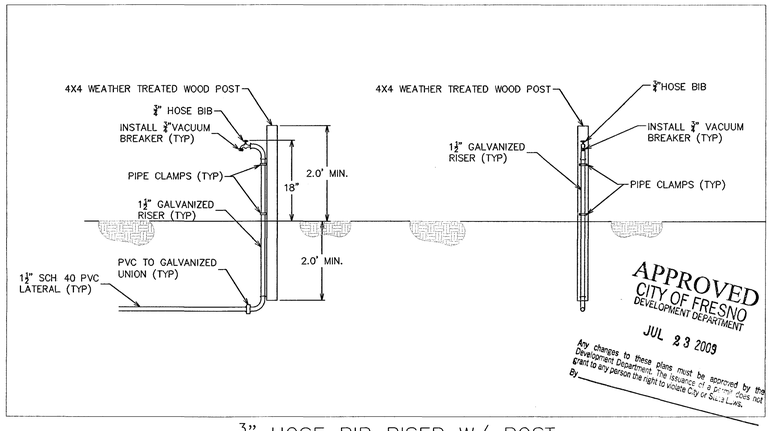
PW File No.	CITY OF FRESNO	Department of Public Works
Proj. ID. FC00084	CONSTRUCTION OF COMMUNITY GARDENS 2021 SOUTH PEACH AVENUE SITE IMPROVEMENTS	Reviewed By: Project Engineer [signature] - EIT
Fund 30136		Dr. By: RWM — Sheet No. 3
Org. 179901		Ch. By: — of 4 Sheets
Ref. & Rev.		Date: 7/14/09 — Scale: As Noted — X-E-XX



IRRIGATION LEGEND	
SYMBOL	DESCRIPTION – MANUFACTURER – MODEL #
IT-SS-	NEW IRRIGATION POINT OF CONNECTION – INSTALLATION BY CITY OF FRESNO
M	NEW (4") WATER METER (METRON SPECTRUM 440) AND 4" SERVICE LINE – INSTALLATION BY CITY OF FRESNO
	BACKFLOW PREVENTION ASSEMBLY (4") – WILKINS – 375 OR EQUIVALENT W/ WEATHER GUARD BLANKET (PER CITY OF FRESNO STANDARD DETAIL W-11)
	GATE/BALL VALVE – PVC (1½" UP TO 4") – LINE SIZE AS NOTED
	PRESSURE MAINLINE – SCH. 40 PVC PIPE – DEPTH TO BE 24" TO 30" BELOW GRADE.
■	¾" HOSE CONNECTIONS WITH 4X4 POST (SEE ¾" HOSE BIB RISER W POST DETAIL)

WATER PRESSURE CALCULATIONS			
STATIC PRESSURE (PSI):		33 PSI*	ASSUMING 33PSI AT THE METER
WATER PRESSURE LOSS CALCULATIONS			
#	INFO	DESCRIPTION	PSI LOSS
1	4"	4" METRON SPECTRUM 440	7.25
2	4"	4" WILKINS 375 BACKFLOW	7.25
3	240'	4" SCH 40 PVC PIPE RUN	2.11
4	225'	4" SCH 40 PVC PIPE RUN	1.98
5	135'	2" SCH 40 PVC PIPE RUN	1.19
6	100'	1 ½" SCH 40 PVC LATERAL	0.88
6	10%	FITTING LOSS (10% OF MAINLINE LOSS)	0.62
7	96 – ¾"	(96) ¾" HOSE BIBS	N/A
8	4" & 1.5"	GATE/BALL VALVES (13 @ .25)	3.25
9	TOTAL SYSTEM PRESSURE LOSS (PSI)		26.35
10	TOTAL PRESSURE SUPPLIED (PSI)		40.00
11	TOTAL PRESSURE SUPPLIED AT HOSE BIB (PSI)		13.65

NOTE:
INSTALL BACK FLOW PREVENTER WITH BOTTOM AT ELEVATION 309.0' OR HIGHER



¾" HOSE BIB RISER W/ POST
SCALE: NTS

APPROVED
CITY OF FRESNO
DEVELOPMENT DEPARTMENT
JUL 23 2009
Any changes to these plans must be approved by the Development Department. The issuance of a permit does not grant to any person the right to violate City of Fresno codes.
By: _____

CITY OF FRESNO
DEVELOPMENT DEPARTMENT
BACK CHECKED
DATE _____
STRUCTURAL _____
BUILDING _____
MECHANICAL _____
ELECTRICAL _____
PLUMBING _____
PROJECT DEVEL _____
GRADING _____
PLANNING/ZONING _____

SCALE IN FEET
0 20 40 80

PW File No. Proj. ID. PC00084 Fund 30136 Org. 172901 Ref. & Rev.	CITY OF FRESNO	Department of Public Works
	CONSTRUCTION OF COMMUNITY GARDENS 2021 SOUTH PEACH AVENUE IRRIGATION LAYOUT	Reviewed By Project Engineer _____ Dr. By: RWM Ch. By: _____ Date: 7/14/09 Scale: As Noted
		Sheet No. 4 of 4 Sheets X-E-XX

Downtown Education & Charter Schools
Action Plan

Background

The City is currently working with Aspire Public Schools and Envision Schools to assist them in opening new charter schools to be located on the City's Peach Avenue Complex and possibly multiple locations in the downtown area. Our objective is to assist these charter management organizations (CMO) in the development of high quality, well-run public charters schools to change the educational dynamics of Fresno and to provide new and innovative educational options to downtown residents, downtown employees and other area citizens.

Charter Management Organizations

Aspire Public Schools
Aspire schools are categorized as small schools and have a college-preparatory focus. Elementary schools (grades K-5) are about 360 students; secondary schools (grades 6-12) are about 400 students. Increasingly many of the new charter schools are being started by "charter management organizations" (CMO's): organizations that establish and run multiple schools. Aspire is widely considered the leading not-for-profit CMO.

Envision Schools
Envision Schools began operations with full-time staff in June 2002. Co-founded by a former Vice President of the Bank of America and an award-winning teacher and nationally recognized school reform leader, Envision has demonstrated the capacity to launch high-performing public high schools that prepare students for college success and democratic citizenship in the 21st Century.

Between both CMO's, there will be 4 new charters schools opened by fall of 2008. By Fall of 2007, Aspire will open its first K-8 school at the Peach Avenue complex. In Fall of 2008 Envision will open two 9-12 high school campuses, one at the Peach Avenue Complex and another at a site to be determined downtown. In Fall of 2008, Aspire will open its second K-8 school in the downtown area. The intent by each organization is to open a total of 5 to 10 new schools apiece in the Fresno area.

Strategy / Tactics: Opening Peach Avenue & Downtown Charter Schools

Critical Dates

- End of September 2006 – Submit charter petition to FUSD / FCOE
- January 2007 – Appointed principal working with community groups on community outreach & recruitment

Land Preparation – Steps necessary for land to be ready for construction of new schools.

Land / Charter Schools

- Hire Henderson Architects Consultants to complete conceptual plan for the entire 50 acres by August 11th
- Attain stock building layout plans from Aspire and Envision by August 11th

Re-designation of Land Use for Education Purposes o of 10 Acres

- Len Simon communication with GSA and other federal government agencies to expedite process
- Final hand-over of deed completed by
- Request Public Benefit Process application from the US Department of Education
- Submit application to the US Department of Education

Facilities

- Conditional Use Permit
  -
  -
- Infrastructure build out
  -
  -

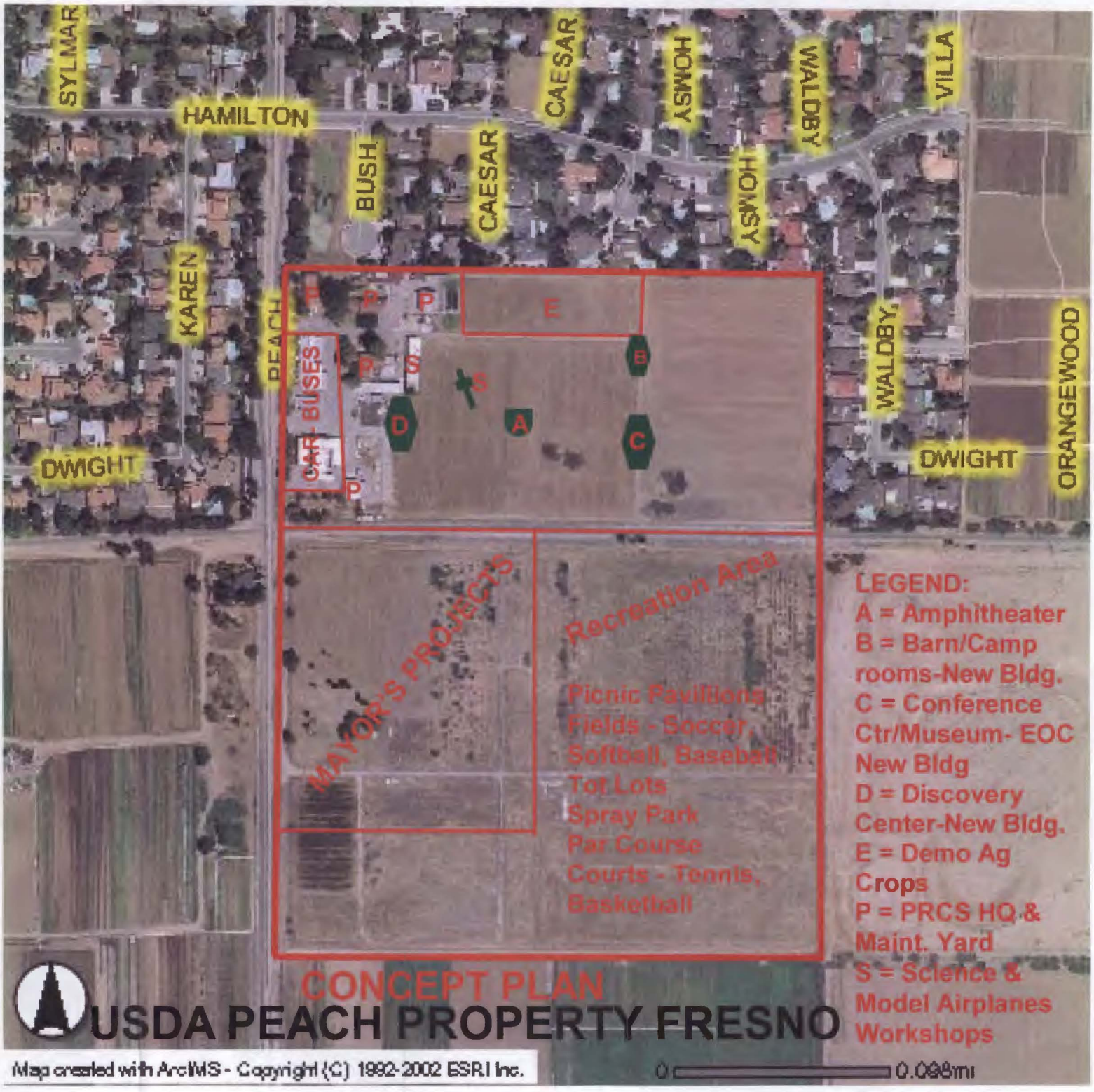
Financing Plan

- CMO Pursuit of State bond money
- Pursuit of private placement bond
- Pursue opportunity of working with district

Charter Management Organization's Critical Path Map – Necessary steps taken by the CMO with assistance by the City

- Orientation meeting with FUSD Superintendent

- Submit charter petition
- Early planning grant applications
- Community outreach efforts
- Charter petition preparation
- Community / parent meetings
- Petition review by charter authorizing organization
- Appeal to county for charter authorization if necessary
- Filing of Prop 39 request
- Staff recruitment
- Staff development
- Student recruitment / enrollment
- Open School


SYLMAR
HAMILTON
BUSH
CAESAR
CAESAR
HOMSY
WALDBY
VILLA
KAREN
HOMSY
WALDBY,
ORANGEWOOD
DWIGHT
DWIGHT
CAR BUSES
P
P
P
P
S
S
E
B
D
A
C
MAYOR'S PROJECTS
Recreation Area
Picnic Pavillions
Fields - Soccer, Softball, Baseball
Tot Lots
Spray Park
Par Course
Courts - Tennis, Basketball
LEGEND:
A = Amphitheater
B = Barn/Camp rooms-New Bldg.
C = Conference Ctr/Museum- EOC New Bldg
D = Discovery Center-New Bldg.
E = Demo Ag Crops
P = PRCS HQ & Maint. Yard
S = Science & Model Airplanes Workshops
CONCEPT PLAN
USDA PEACH PROPERTY FRESNO
Map created with ArcIMS - Copyright (C) 1992-2002 ESRI Inc.
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0.08mi

City of FRESNO

REPORT TO THE CITY COUNCIL

AGENDA ITEM NO.
COUNCIL MEETING 05/9/06
APPROVED BY
CITY MANAGER

May 9, 2006

FROM: RANDY COOPER, Director
Parks, Recreation and Community Services

THROUGH: DARRELL UNRUH, Planning Manager
Secretary, Historic Preservation Commission

10/9/06

BY: KARANA HATTERSLEY-DRAYTON
Historic Preservation Project Manager

SUBJECT: CONSIDER DESIGNATION OF THE PEACH AVENUE USDA HORTICULTURAL FIELD STATION HISTORIC DISTRICT LOCATED AT 2021 SOUTH PEACH AVENUE TO THE LOCAL REGISTER OF HISTORIC RESOURCES.

KEY RESULT AREA

One Fresno

RECOMMENDATION

The Historic Preservation Commission recommends that the City Council adopt the attached Resolution placing the Peach Avenue USDA Horticultural Field Station on the Local Register of Historic Resources as a Historic District.

EXECUTIVE SUMMARY

The Department of Parks, Recreation and Community Services (PRCS) supports nomination of the former USDA Horticultural Field Station as a historic district to Fresno's Local Register of Historic Resources. PRCS intends to adaptively reuse the five buildings within the district boundaries for museum and park facilities and plant up to two acres of fallow land as a demonstration garden. Historic status allows use of the California Historic Building Code for rehabilitation and completes the City's obligation to the federal government regarding official transfer of the deed. This status specifically applies to the aforementioned buildings and acres. The remaining buildings and acres in the 20 acres above the tracks, as well as the 30 acres below the railroad tracks are not considered part of the historic district. The City of Fresno's Historic Preservation Commission held a noticed public hearing on March 13, 2006 regarding nomination of the historic district and concluded that it was eligible to the Register under Criteria i and ii. The Historic Preservation Commission hereby forwards this nomination to the City Council for consideration.

KEY OBJECTIVE BALANCE

Council action on historic preservation applications positively addresses the three Key Objectives of Customer Satisfaction, Financial Management and Employee Satisfaction. Customer service is the number one priority of the Historic Preservation Program and includes both external and internal customers. In the case of nominations to the Local Register, staff responds to applications from external customers, property owners, to have homes, commercial buildings or districts designated as historic properties as provided for through the Fresno Municipal Code and the City's 2025 General Plan. Historic Preservation funding is derived almost exclusively from federal funds which are specifically designated for the purpose. Employee satisfaction is derived from working with our customers, the citizens of Fresno, to help protect the City's historic resources and preserve and enhance neighborhoods.

BACKGROUND

The former USDA Horticultural Field Station is located on approximately 50 acres at 2021 South Peach Avenue in Southeast Fresno. From 1916 to 2000 the Station played a pivotal role in the development of fruit varieties and research in fruit genetics, post harvest transport and entomology that contributed to the development and advancement of agriculture in the San Joaquin Valley as well as throughout California and the United States. By 1936 a core campus of five buildings was on the northern original 20 acres of the parcel including a residence for the Station's director, a pump house, a genetics laboratory, market quality unit and greenhouse. All buildings were designed with Spanish Revival detailing. Over the next 45 years the original buildings were altered and added to and new as well as "temporary" buildings were constructed. In the year 2000 the USDA Field Station was moved to Parlier and the South Peach facility was closed. The 50 acres were determined surplus and the federal government began a process of divestment. The City of Fresno through PRCS applied to the U.S. Department of the Interior, National Parks Service (NPS) for the property, with the hope of using the parcel for sorely needed recreational facilities and open space. The joint application was sent to General Services Administration (GSA) and approved. On April 14, 2005, NPS notified the Parks Director that the City's application would be granted.

The transfer of federal property qualified as a "federal undertaking" as defined under federal law (36 CFR Part 800.16(y). Therefore the National Park Service, serving as the lead agency for the transfer process, was required to evaluate the affects of this transfer on any potential historic properties. NPS of course passed the work on to the city and PRCS who hired a consulting firm to prepare the analysis. What is required for a federal undertaking is to evaluate whether or not there are any "historic properties" as defined by Section 106 of the National Historic Preservation Act; thus are there resources eligible to the National Register?

Prior to the City of Fresno receiving the USDA Horticultural Field Station property, an environmental historical report was done. This report was authorized by the USDA. Applied Earthworks was the company that completed that report, which clearly established the existence of several potentially historic buildings. The City of Fresno was obligated under the terms of the property transfer to do a comprehensive and complete environmental historical evaluation of the property. Applied Earthworks was again identified to do this work because their experience and previous involvement with this property gave them the ability to expedite a report/evaluation.

Applied Earthworks November 2005 report concluded that the entire 20 acres, north of California Ave. (railroad tracks) should be considered an historical asset and eligible as a National Register district. We, the City of Fresno, disagreed and proposed that only the 5 oldest buildings, greenhouse, landscaping, infrastructure and 2 acres of farmland be identified as historic assets. The acres and buildings not included would not be considered historic. Specifically, the bottom 30 acres, south of the railroad tracks, would not be considered a historic asset or the balance of the land or buildings not identified above the railroad tracks.

At the January 23, 2006 public hearing the Historic Preservation Commission on a 5-0 vote supported the staff position that the former Field Station was eligible to the National Register of Historic Places under Criterion A and B with a period of significance of 1916-2000. The Commission also supported the staff recommendation for a smaller redrawn district boundary that includes the core campus that dates to 1936. The district thus includes the five oldest buildings and their additions (Buildings 9, 10, 11, 12 and 18), landscaping and infrastructure and up to 2 acres of fallow land, which will remain in garden or agricultural use.

The greenhouses at the western edge of the field (Buildings 31) should be retained if they are structurally sound, as they are on axis with Building 10 and contribute to the visual integrity of this portion of the site. The 1980s constructed Building 15 is a non-contributor to the District but this and any other structurally viable building on the full 20- acre site should be retained if they can be adaptively reused by the City.

The staff and commission recommendations were forwarded to the SHPO along with the Applied Earthworks report in a letter dated February 2, 2006. Copies of this letter and the report were also sent to the National Park Service in San Francisco. In a letter dated February 27, 2006 and received by the Department on March 9, the SHPO did not concur with either the consultants' findings or the Commission's revised district boundaries and did not agree that any part of the site was eligible as a district for the National Register. In a May 22, 2006 letter Jane Lehman, the Regional Historic Preservation Office for the U.S. General Services Administration, also concurred with the SHPO findings regarding National Register eligibility of the property, but noted the importance of the site and that "a determination of non-eligibility for the HRHP does not preclude a property from being listed on a local historical register."

Regardless of whether the site is a National Register property or not, it is the consensus of Planning and PRCS staff, the Historic Preservation Commission and NPS staff that the former USDA Field Station has great historic significance and should be preserved and adaptively reused as a district under Fresno's Local Register of Historic Resources. The placement on the Register ensures not only the use of the California Historic Building Code but also the City's environmental obligations under federal and state laws, including the California Environmental Quality Act (CEQA).

Fresno has had a Local Register of Historic Resources for 27 years. Of the 250 or so individual properties on the Register only 27 of these are also on the National Register. Local Registers are set up to help preserve and celebrate local resources, not all of which meet the very high threshold for the National Register.

Attachments
Exhibit A - Designation Criteria for Local Historic Districts.
Exhibit B - District Record and Revised District Map.
Exhibit C - A Resolution of the City Council of the City of Fresno, California, Designating the Peach Avenue USDA Horticultural Field Station Historic District to the Local Register of Historic Resources.

DON
PHIL
CHARLES - ASPIRE

City of FRESNO

OFFICE OF THE CITY MANAGER

FALL 2007 - TO OPEN

Downtown Education & Charter Schools

Agenda
August 31, 2006

MASTER PLAN
Park School } operational Statement

To dos

I. CUP Application Steps

- Operational Statement
- Conceptual Plan
  landscape plan
  elevations

II. Alternate Location of Charter School Footprint

III. Temporary Site Process

- Portables Buildings – 10 or 11 buildings – How to get them?
- Alternative Location for Charter Schools (South Side)

1. Rent Them
2. GE - Capital
3. School District

IV. Movement Forward

T/S - Scott mazur

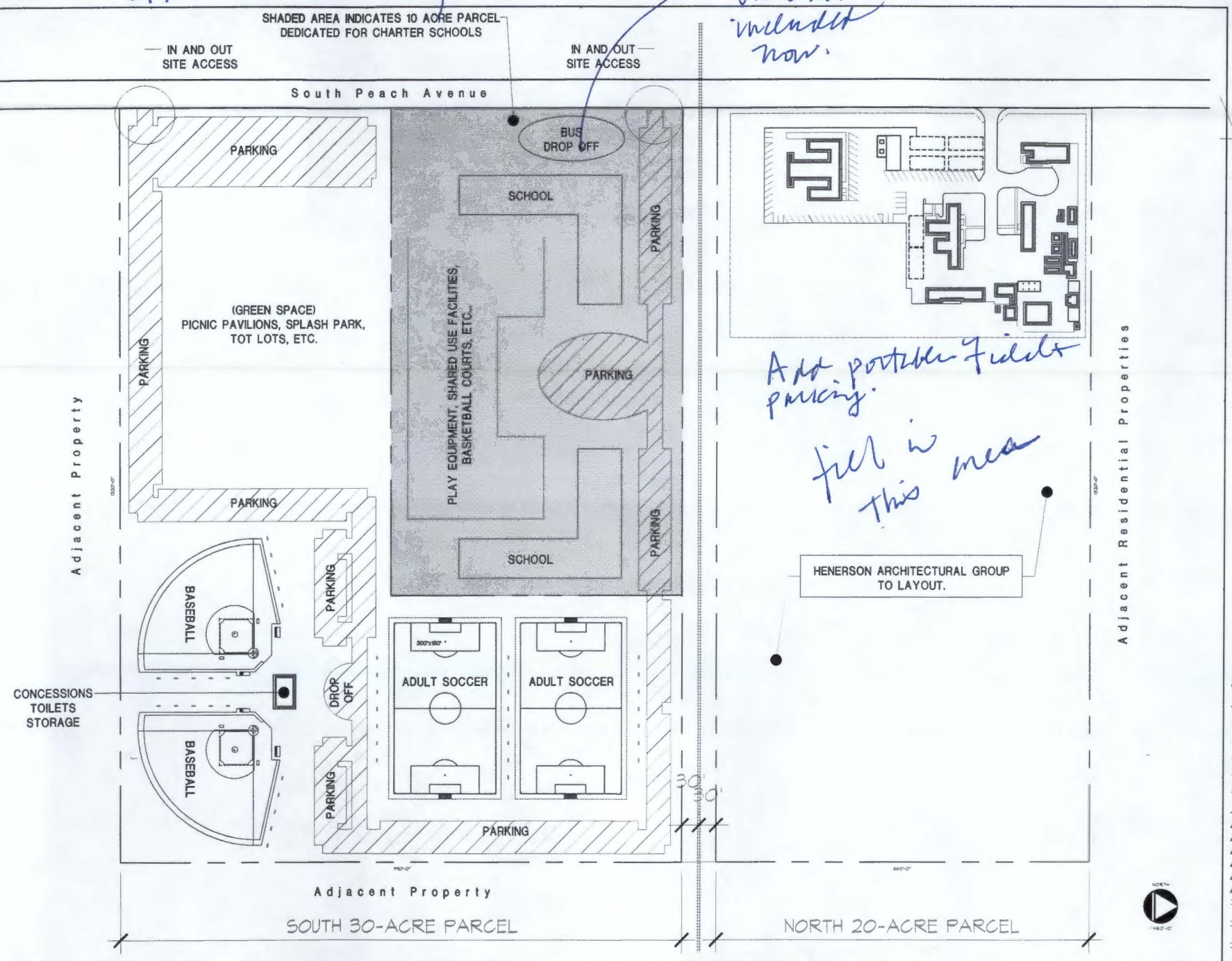
35,000 ft for 350 students.

Sept 14, 2006 -
~~Student~~
MTG w/ Fresno Unified

LA 210
215
17.10

GP - Public Facility —

Jerry said not intended now.



REVISED CONCEPTUAL SITE PLAN TO REFLECT THE CITY OF FRESNO'S FLOW DIRECTION.

PRIVATE School - not subject to noise

Environmental for entire site

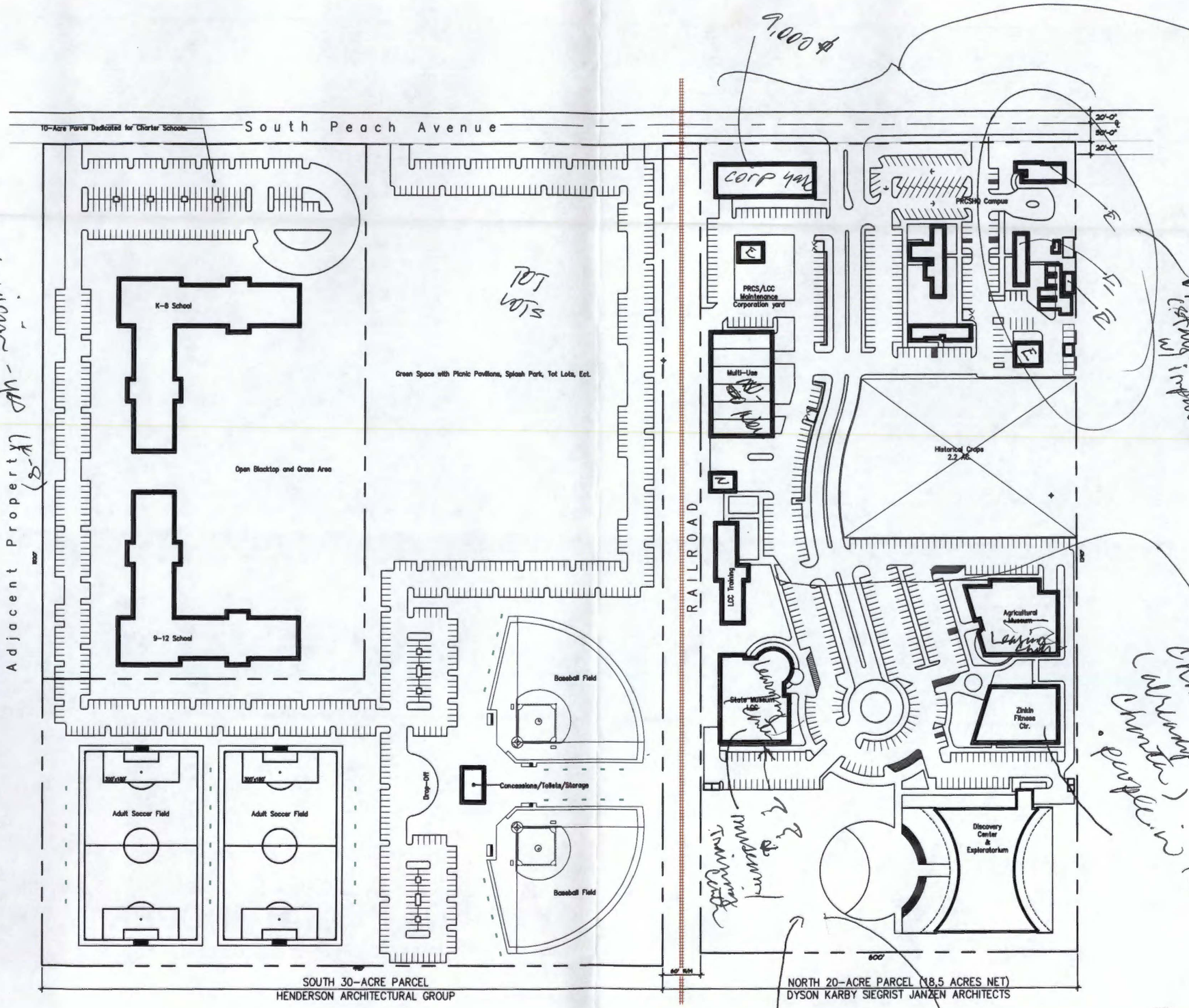
Traffic Study ???

Henderson Architectural Group, Inc.

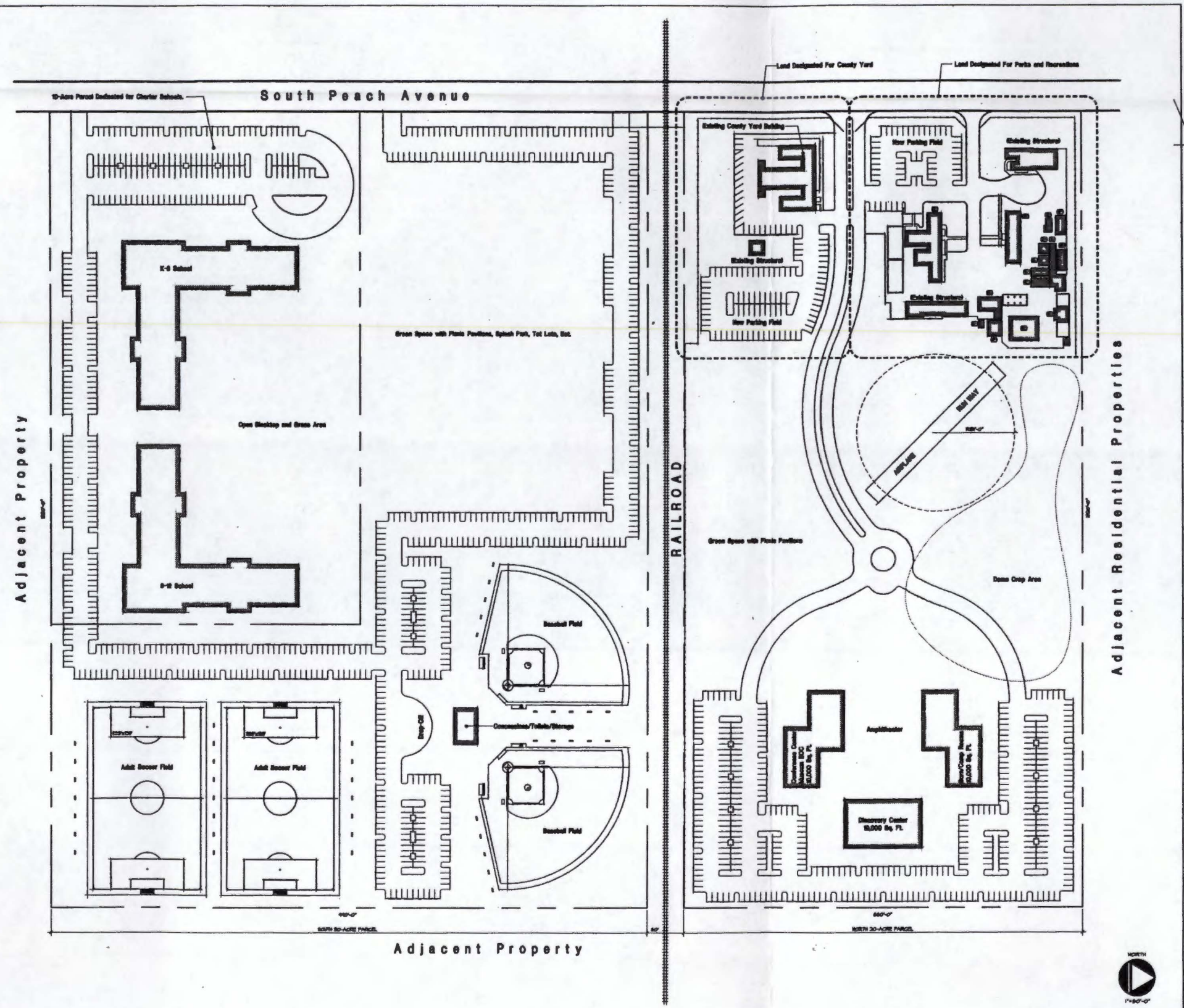
Project: City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner: City of Fresno
2600 Fresno Street
Fresno, California 93721

A-0.0



CITY OF FRESNO PEACH AVENUE COMPLEX PROPOSED CONCEPTUAL SITE PLANS



Proposed Site Plan

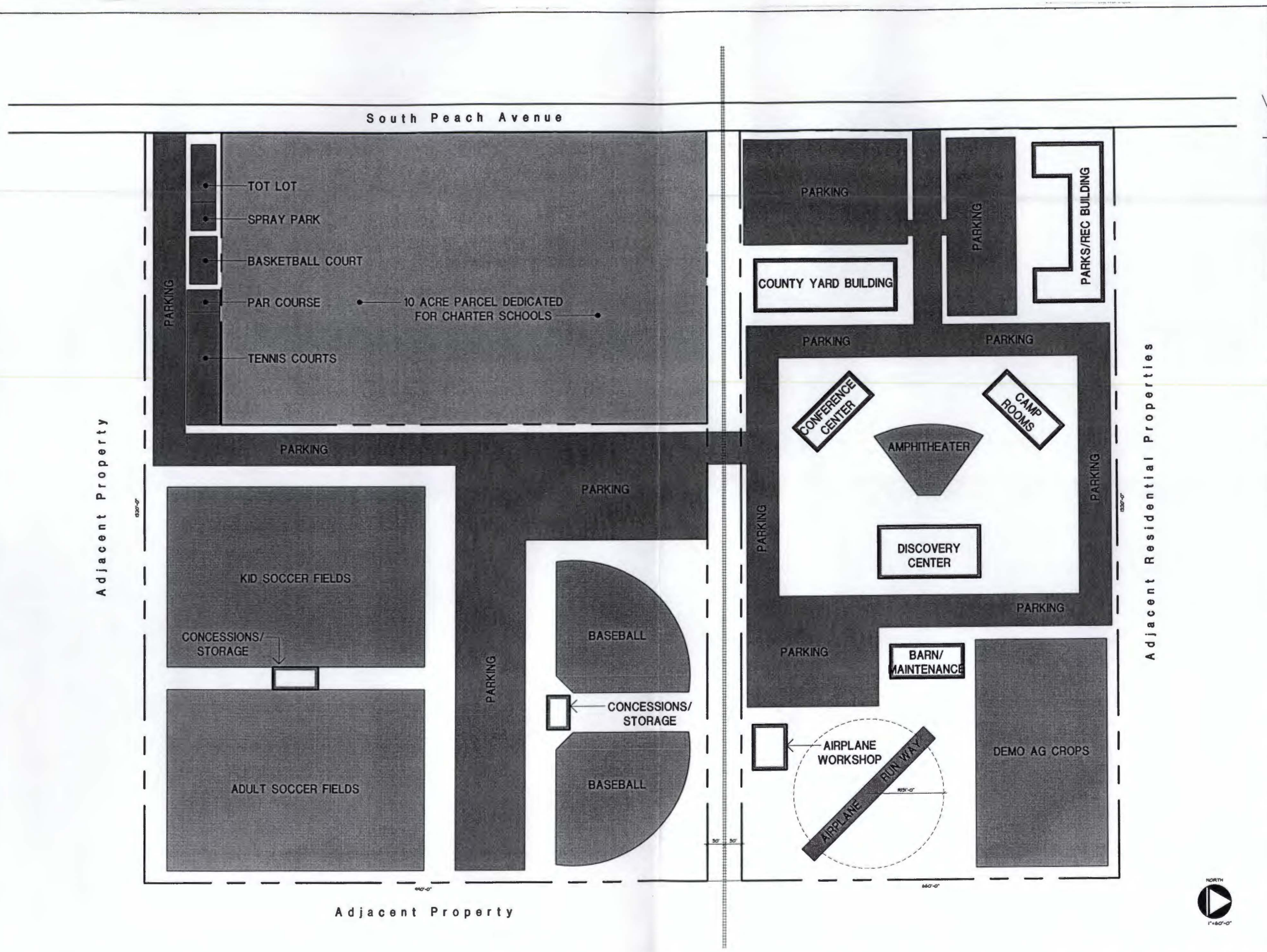
Rendering Architectural Group, Inc.
1400 North Van Ness Avenue
Fresno, California 93728
559.485.5000 voice
559.485.5001 fax

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
90% Plan Review
Bidding
Plan Check
Revisions

Scale
1"=50'-0"
Project Manager
DAVID HENDERSON
Project Number
06-149
Sheet
A-0.0



Conceptual Site Plan (Scheme A)

Architectural Group, Inc.
1683 North Van Ness Avenue
Fresno, California 93728
559.485.0000 voice
559.485.0001 fax

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
Site Plan Review
Bidding
Plan Check
Revisions

Scale
1"=60'-0"
Project Manager
DAVE HENDERSON
Project Number
06-149
Sheet
A-0.0

South Peach Avenue

PARKING
TOT LOTS
SPLASH PARK
KID SOCCER FIELDS
CONCESSIONS/ STORAGE
BASKETBALL COURT
BASKETBALL COURT
TENNIS COURTS
PARKING
10 ACRE PARCEL DEDICATED FOR CHARTER SCHOOLS
PARKING
PARKING
PARKS/REC BUILDING
COUNTY YARD BUILDING
PARKING
PARKING
CONFERENCE CENTER
CAMP ROOMS
AMPHITHEATER
PARKING
PARKING
DISCOVERY CENTER
PARKING
PARKING
BARN/ MAINTENANCE
ADULT SOCCER FIELDS
BASEBALL
CONCESSIONS/ STORAGE
BASEBALL
AIRPLANE WORKSHOP
AIRPLANE RUN WAY
DEMO AG CROPS
NORTH
1"=80'-0"

Adjacent Property

Adjacent Residential Properties

Adjacent Property

Conceptual Site Plan (Scheme B)

Henderson Architectural Group, Inc.
1663 North Van Ness Avenue
Fresno, California 93728
559.485.3440 voice
559.485.9481 fax

Architect

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
City Plan Review
Bidding
Plan Check
Revisions

Scale 1"=80'-0"
Project Manager DAVE HENDERSON
Project Number 06-146
Sheet A-0.0

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South Peach Avenue

PARKING

TOT LOTS

SPLASH PARK

KID SOCCER FIELDS

BASKETBALL COURT

BASKETBALL COURT

TENNIS COURTS

PARKING

ADJACENT PROPERTY

10 ACRE PARCEL DEDICATED FOR CHARTER SCHOOLS

CONCESSIONS/ STORAGE

PARKING

CONCESSIONS/ STORAGE

ADULT SOCCER FIELD

ADULT SOCCER FIELD

BASEBALL

BASEBALL

PARKING

PARKING

COUNTY YARD BUILDING

PARKING

PARKING

PARKING

PARKS/REC BUILDING

CONFERENCE CENTER

AMPHITHEATER

CAMP ROOMS

PARKING

PARKING

DISCOVERY CENTER

PARKING

PARKING

BARN/ MAINTENANCE

AIRPLANE WORKSHOP

RUN WAY

AIRPLANE

DEMO AG CROPS

ADJACENT PROPERTIES

ADJACENT PROPERTY

NORTH

1"=60'-0"

Conceptual Site Plan (Scheme B)

Henderson Architectural Group, Inc.
1465 North Van Ness Avenue
Fresno, California 93728
000.000.0000 voice
000.000.0001 fax

Architect

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
Site Plan Review
Bidding
Plan Check
Revisions

Scale
1"=60'-0"
Project Manager
DAVE HENDERSON
Project Number
06-146
Sheet
A-0.0

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City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
October 10, 2006

I. Conceptual and Master Plan Development

- Art Dyson – Master Plan
- Conceptual Plan Drawing

II. PRCS Department Site Plan Projects

- Zinkin Family Recreation/Nutrition/Sports Facility
- Conservation Corp State Museum
- Discovery Center

III. Charter Schools Update

- Land Re-designation
- Milestones
- Aspire Site Visit (Stockton)

City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
October 5, 2006

I. Upcoming Meeting with Mayor's Office & City Manager's Office

II. Peach Property Update

- Master Plan & Conceptual Plan Update
- US General Services Administration – Land Re-designation

III. CUP Application & Traffic Study

- Funding for Traffic Study
- Operational Statements

IV. Charter Schools Update

- Financing of School Buildings – find financing for Charter School
- Portables on site
- Number of Portables & Costs Associated

V. Path Forward

From: Sophia Pagoulatos
To: John Madrid
Date: 8/24/2006 11:27:44 AM
Subject: Re: Fwd: Peach Ave Park & Charter School

John:

I also committed to providing you with supplemental information, i.e. information to be provided in addition to the site plans and elevations, that we need to process the CUP. Here's a list:

1. Operational Statement: this is a narrative document that explains the operations of a use. For example, for the charter schools, we would need # of Students, # of staff, hours of operation, grades served, # of classrooms, # of seats or square footage of any large auditoriums, whether or not the schools would provide their own bus transport; need for bus circulation, # of deliveries of food or supplies, use of outdoor facilities, etc. For the recreational facilities on the site, hours of operation, whether or not the facility would have night lighting, maximum capacity (# of people), etc. Also would need this for the uses on the northern portion of the site. Basically anything that relates to the use.

2. Supplemental studies: In this case, we will need at a minimum the following:

a. Traffic Impact Study-this is typically contracted out. There are several traffic engineering firms in the area; you need to get this going asap as they take 60-120 days.

b. Phase I (and Phase II) Site Assessments for site contamination. These are also contracted out and take time. Need to get this underway if it hasn't been done already. I think Parks mentioned that this has already been done. If so, we will need copies with the application.

c. Cultural Resource Surveys - this would be necessary for the northern portion of the site. Maybe this has already been done? Contact Karana Hattersley-Drayton, Cultural Resource Project Manager at x8520.

Let me know if you have any questions--

Sophia Pagoulatos
City of Fresno
Planning & Development Department
Supervising Planner
(559) 621-8062

>>> John Madrid 8/24/2006 10:39 AM >>>
Sophia,

I've been out sick for a few days and am catching up on some old emails. Thanks again for the information below and I did receive the CUP application.

jm

>>> Sophia Pagoulatos 08/15/06 1:59 PM >>>
John-

The planning department has already determined that the zoning on the property is appropriate, and the only planning entitlement needed is a conditional use permit. In order to begin our review of the permit, a conditional use permit application needs to be submitted to our department on our standard form, which I will send you via interoffice mail (unfortunately it is not yet electronic). The form comes with instructions for the submittal of the application, and I will be happy to meet with you and discuss. The most important components of the application are the operational statement (in which the project is described in detail)

and the plans, drawn by a licensed architect.

Once a complete application has been submitted, the planning department reviews it in conjunction with about 20+ additional reviewing departments and agencies, including public works. It is during this process that on-site and off-site infrastructure requirements are determined. Your finalized conditional use permit will consist of conditions of approval, which will clearly state all infrastructure and other development requirements.

Once you receive the application form, let's meet to discuss.

Hope this helps--

Sophia Pagoulatos
Planning & Development Department
Supervising Planner
x8062

>>> John Madrid 8/9/2006 11:08 AM >>>
Sophia, thank you. The document is extremely helpful. Where I still need some clarification is what type of structural things are looked at prior to or during the submission of the applications. Examples of this could be re-zoning for use, looking at utility infrastructure, curbs, gutters, street improvements, etc. And is it the CUP process that enacts Public Works and / or other departments to begin the work on these? If that's the case then I just need a list of those items that are normally looked at. Again, I appreciate your help.

jm

>>> Sophia Pagoulatos 08/09/06 9:47 AM >>>
John-

Attached is an approximate timeline.

Sophia

>>> John Madrid 8/8/2006 2:43 PM >>>
Sophia, could you add information to the action plan that runs down the CUP processes and steps. Nick had mentioned it would take approx. 75-90 days but not quite sure what is included in that process. If you could provide approximately how long each step would take, that would be helpful. Thanks and call me with questions.

jm

>>> Sophia Pagoulatos 08/02/06 5:18 PM >>>
I'll be happy to work with you on this.

Sophia
Planning & Development
x8062

>>> John Madrid 8/2/2006 4:53 PM >>>
We are developing an action plan for the charter school projects for Peach Avenue. It will go over land preparations, re-designation of land use for the schools, CUP, infrastructure build out and construction processes as well as input from the charter management organization on needed steps from them.

Nick had talked about expediting the CUP process by submitting information then amending it when things become more concrete. I will send out an outline draft of the action plan and am ask each of you to review it and spell out some specifics of the CUP process and other pertinent items. I'm sure there are things that

City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
August 17, 2006

I. Land Re-designation Process - For Charter School - Filton National Park; Need to be re-designation for use for Educational purposes. Request the Dept of Education for the property to be re-designation.

II. Conceptual Plan – Master Plan
CUP to cover Entire site - Jerry said not to include in public / neighborhood meeting.

III. Alternate Plan Process – Portables and Site

IV. MOU

V. Movement Forward

Think - finish CUP masterplan
CUP - done by end of year.

K-8 - Aspire Charter School

Operational Statement
For
Peach Street School Site
Fresno, California

Aspire Public Schools is a privately owned non-profit public benefit corporation which currently operates eighteen public schools in California. Aspire now serves nearly five thousand students in grades K through 12. Fifteen of its schools are located in Northern California that include the Bay area and the Central Valley between Ceres and Sacramento. The remaining schools are located in Huntington Park.

Aspire's program is a "College For Certain' model that is designed to educate and guide a student towards admission and success into a four-year college program.

Fresno is a metropolitan area that Aspire is determining the feasibility of establishing a K-8 program. Given the area's demographics and school performance data, Fresno is an ideal community for Aspire to serve.

The Proposed School Facility

Approximately 10 acres of a total 50 acre site is being provided on Peach Avenue by the City of Fresno to build a K-8 school facility and a 9-13 school facility. The K-8 facility will be designed and built by Aspire and the 9-13 facility will be designed and built by Envision Schools.

The K-8 facility will comprise approximately 52,000 square feet including 20 classrooms a library, counseling offices, administrative office and a multi-purpose room of approximately 6,000 square feet that will accommodate 600 seats. The multi-purpose room will serve as a school assembly venue, dining hall, venue for performing arts presentations and a community meeting hall.

A school play yard will be provided and divided into zones for grades K-1 only, grades 2-5 only and grades 6-8 only. The yard will be lighted during the night time hours to provide safety and security to the campus. It is anticipated that the school yard will be utilized primarily by students during school hours given the fact a public park will be created that will include green space, basketball courts, and fields for baseball and soccer.

Student and Staff Population

At capacity, the staff will consist of 20 teachers, 2 counselors, and an administrative staff of 3. The facility will accommodate approximately 540 students with 28 students per classroom. Classes begin at 8:15 a.m. and terminate at 3:15 p.m. daily. Faculty and staff members generally arrive between the hours of 7:00 a.m. and depart no later than 6:00 p.m.

Transportation and Deliveries

Aspire itself does not provide bus transportation. As is typical in all of Aspire's campuses, if transportation is required, the local school district provides bus service on a fee-for-service basis. The campus design would allow for bus access and a student drop-off area. When bus service is not available, parents are responsible for the transportation of their child. Given the proximity of neighborhood homes to the campus a large percentage of students will be within walking distance of the school.

The campus will provide an isolated area for trash pickup, the delivery of supplies, food and other bulk items.

Envision Schools
Fresno Campus

Operational Statement

Scope of Construction

Envision Schools proposes to design and construct a 50,000 square foot high school occupying a 3-5 acre parcel on the City of Fresno's Peach Avenue Complex.

Parking will be provided on the parcel to accommodate the adult and student population that will work and attend the school.

Target Population

Schools in the Envision Schools network engage diverse student bodies, especially First Generation College Bound (FGCB) students, in rigorous academic work resulting in college admission and success in life.

Scope of Program

All Envision Schools employ an instructional model based on project-based learning, a personalized learning environment, and workplace learning. Arts and digital technology are integrated across all content areas as tools for understanding and expression. All Envision graduates complete the coursework requirements for entrance into the University of California and California State University systems.

Grades Served

An Envision School serves students in grades 9-13. Students are grouped in grades 9/10 and grades 11/12 teams. Each school will have approximately 30 13th graders.

Number of Students

At full build out, the maximum enrollment of the school will be 500 students. The school will start with 125 9th graders and will gain 125 new students each year as new grades are added.

Number of Staff

At full build out, the maximum number of staff at the school will be 32. The school will start with approximately 8 staff in year 1 to serve the inaugural class and will gain approximately 8 new staff members each fall as new grades are added.

Number of Classrooms

At an Envision School, there is a 1:1 ratio of teachers to classrooms. Only in extenuating circumstances are teachers asked to share a classroom with another teacher.

As a result, at full build out, the maximum number of classrooms needed is 24. In year 1, there will be approximately 6 classrooms. The school will require 6 new classrooms each year as new grades are added.

Multi-Purpose Room

There are no immediate plans for an auditorium. However, the entire school community generally meets 2x a week. As a result, the architectural plan will include plans for a multi-purpose room that will be used as a community meeting, performing arts, and school commons space. The approximate space requirements for this multi-purpose room are 6,000 sq. ft.

Hours of Operation

The Envision Schools school day runs from 8am - 4pm, Monday-Friday. At present, there is no substantial weekend or evening component to the program. Faculty, staff, and students generally arrive for work no earlier than 7am and leave no later than 7pm.

Transportation

In our Bay Area cluster, Envision Schools does not purchase bus services from the districts we work with nor do we provide busing ourselves. In Fresno, we anticipate students and parents will be responsible for their own transportation. As such, we do not anticipate a need for buses or bus circulation on site.

Supply Deliveries

To date, Envision Schools does not prepare school lunches on site. Therefore, architectural plans will not include plans for a full kitchen and we do not anticipate daily food deliveries. Large items such as school furniture (desks, tables, chairs, etc.) are generally received only occasionally at the beginning and end of the academic year. On a regular basis, the only anticipated deliveries will be for office supplies.

City of FRESNO

OFFICE OF THE CITY MANAGER

Charter School Development Meeting

Agenda
July 20, 2006

- Envision
- Aspire
- 1998 -
  - Modesto
  - LA
  - Oakland
  - $60 million

Charter School

Prop. 47 + 55

I. Brief Background

II. Update on City Meetings

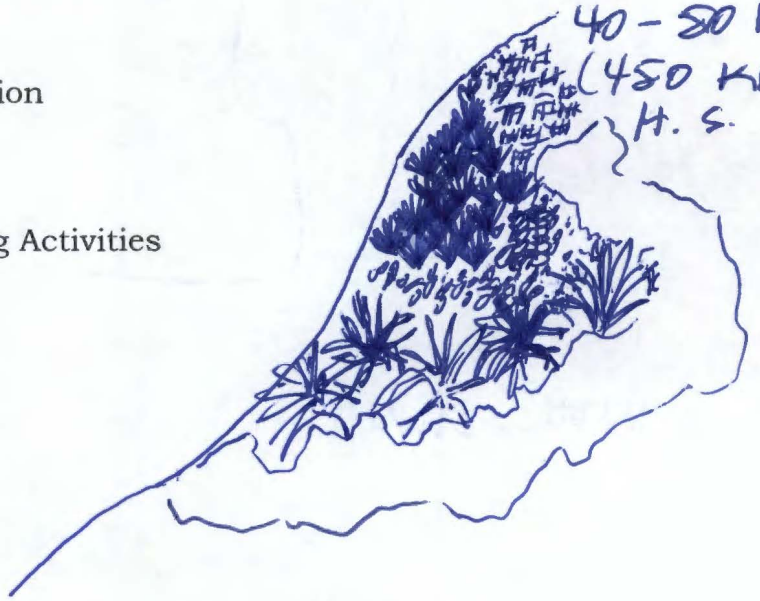
III. Peach Property & Charter School Development Progress

K-5
28-30,000 ft²
K-8 = 40 K ft²

IV. Land Re-designation Process (Peach Property)

40 - 50 K ft²
(450 kid H. S.

V. FUSD Meeting Preparation



VI. Coordination of Ongoing Activities

Planning?

Peach Ave. USDA

City acquired 50 acres -

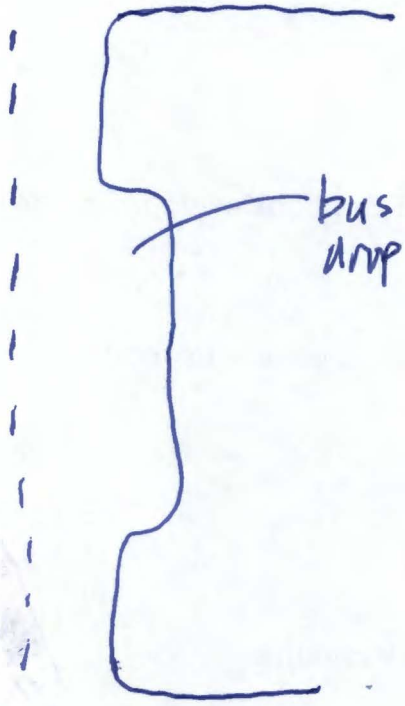
- Spook land redesignated for School use.
- Locate arch. to design master plan

S. end of 50 acres - park

20 acres N. off RR is a Learning Center.

Rocks is K-5
(expand to K-8) } special learning Center

Nick requested site plan.



LEARNING CENTER

4½ acres. (K-5)

5½ acres (K-8)

6

30 spaces - teachers employees.

Wilson

10-month

North end -

CITY OF FRESNO

Planning & Development Department
Building and Safety Division
Building Section
Fax Inspection

600 Fresno Street
Fresno, Ca. 937214
Tel: (559)621-8116
Tel: (559)498-4357

Application Number . . . . . 15-00002734 Date 3/18/15
Application pin number . . . 297566
Property Address . . . . . 2021 S PEACH AVE
Assessor's Parcel Number . . 473-030-07 T
Tract Lot . . . . . .
Application type description DEMOLITION COMMERCIAL
Subdivision Name . . . . . .
Property Use . . . . . .
Property Zoning . . . . . EXCLUSIVE FIVE ACRE AGRIC
Application valuation 0

Owner	Contractor
U S DEPT OF AGRI	DAVID KNOTT INC
	7340 NORTH TAMERA
.... .. @	FRESNO CA 93711
	(559) 449-8935

--- Structure Information 000 000 COMM DEMO OF 7 BUILDINGS
Other struct info . . . . . APPLICATION ACCEPTED BY DE
CODE YEAR 2013

Permit . . . . . DEMOLITION COMMERCIAL
Additional desc . . DE 7 BLD'GS INCLUSIVE
Phone Access Code . 4671467
Permit pin number . 4671467
Permit Fee . . . . 163.53 Plan Check Fee . . .00
Issue Date . . . . 3/18/15 Valuation 0
Expiration Date . . 9/14/15

Special Notes and Comments
Comm demo of 7 buildings

Other Fees	DEMOLITION ADMIN FEE	26.78
	GEN PLAN SURCHARGE	26.67
	WASTE DIVERSION FEE	17.70
	WORKERSCOMP	10.70

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	163.53	.00	.00	163.53
Plan Check Total	.00	.00	.00	.00
Other Fee Total	81.85	.00	.00	81.85
Grand Total	245.38	.00	.00	245.38

NOTE:"Other Fees" & "Other Fee Total" may include amounts from previous transactions. Certifications required by State Law were executed and incorporated by reference. Original on file with City permit.

Final JM 4/16/15

City of
FRESNO

Development and Resource Management Department
Building and Safety Services Division

Project Address 2021 S. PEACH AVE

Permit No. 15 2734

APPLICATION TYPE: BLDG X ELEC ____ PLBG ✓ MECH ____ GRAD ____ OTHER DEMO

DRAW DOWN ____ ACCT NO. ____ CREDIT CARD ____ ACCT NAME ____

SPECIAL CONDITIONS

WORKERS COMPENSATION

Section 3800 of the State Labor Code provides that every county or city which requires issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition, or repair of any building or structure shall require that each applicant for permit have on file:

(Please Initial)

____ A Certificate of Consent to self-insure by the Director of Industrial Relations or

DRK A Certificate of Workers' Compensation Insurance issued to the city to be an admitted insurer.

____ A signed statement of a Firm Without Employees on file with the city.

EXCLUSIONS

(Please Initial)

____ Permits for work costing $100.00 or less.

____ Applicants for permits who sign the following certifications:
"I certify that in the performance of the work for which this permit is issued I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California."

If after signing this certificate, the applicant desires to employ any person for work covered by this permit, the applicant must obtain Workers' Compensation Insurance as required by Section 3700 of the State Labor Code, or this permit shall be deemed revoked.

STATE REQUIRED LICENSING

I hereby affirm under penalty of perjury that I am licensed under provisions or Chapter 9 of Division 3 of the Business and Professions Code, and my license is in full force and effect. **LICENSE NO.** 895358 A/C21

EXEMPTION FROM STATE REQUIRED LICENSING

(Please Initial)

____ I am the owner of the property addressed on the subject permit application. The building or improving of structures hereon, or appurtenances thereto, will be done by myself or through my own employees with wages as their sole compensation. The structure or structures, with or without the appurtenances thereto, is not intended to be and will not be offered for sale within one year after completion of same (Section 7044).

____ As owner of the property the building or improving structures or appurtenances thereto will be contracted with licensed contractors. (Section 7044)

____ Aggregate total of the contracts is not more than $500.00 for labor, materials, and all other work. (Section 7048)

____ I am a licensed architect, engineer, or structural pest control operator within the scope of my license. (Section 7051)
Print Firm Name: ____

HAZARDOUS WASTE AND SUBSTANCE SITES

I declare that I have made application for a permit to develop property at Fresno California. I have consulted the list of Hazardous Waste and Substance Sites developed by the State Office of Planning and Research pursuant to GC Section 65962.5.

(Please Initial)

DRK I have determined that the said property **is not** included on a list compiled pursuant to this section.

____ I have determined that the said property **is** included on a list compiled pursuant to this section.

I further declare under penalty of perjury under the laws of the State of California, that the foregoing is true and correct.

DATED THIS 18TH DAY OF MARCH 20 15

SIGNATURE DAVID KNOTT INC. BY [signature] PHONE NUMBER 559-449-8935

PRINT NAME DAVID T. KNOTT Staff Initials [signature]

RECORD COPY

Updated 8/19/10

CITY OF FRESNO

Planning & Development Department
Building and Safety Division
Plumbing Section
Fax Inspection

2600 Fresno Street
Fresno, Ca. 93721
Tel: (559)621-8116
Tel: (559)498-4357

Application Number . . . . . 15-00002734 Date 3/18/15
Application pin number . . . 297566
Property Address . . . . . 2021 S PEACH AVE
Assessor's Parcel Number . . 473-030-07 T
Tract Lot . . . . . .
Application type description DEMOLITION COMMERCIAL
Subdivision Name . . . . . .
Property Use . . . . . .
Property Zoning . . . . . EXCLUSIVE FIVE ACRE AGRIC
Application valuation 0

Owner	Contractor
U S DEPT OF AGRI	DAVID KNOTT INC
	7340 NORTH TAMERA
.... .. @	FRESNO CA 93711
	(559) 449-8935

--- Structure Information 000 000 COMM DEMO OF 7 BUILDINGS
Other struct info . . . . . CODE YEAR 2013

Permit . . . . . PLUMBING COM MISCELLANEOUS
Additional desc . . DE ONLY 1 CAP
Phone Access Code . 4671475
Permit pin number . 4671475
Permit Fee . . . . 103.19 Plan Check Fee . . .00
Issue Date . . . . 3/18/15 Valuation 0
Expiration Date . . 9/14/15

Qty	Unit Charge	Per		Extension
			BASE FEE	21.43
1.00	81.7600	EA	BUILDING SEWER	81.76

Special Notes and Comments
Comm demo of 7 buildings

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	103.19	.00	.00	103.19
Plan Check Total	.00	.00	.00	.00
Grand Total	103.19	.00	.00	103.19

Note: "Other Fees" & "Other Fee Total" may include amounts from previous transactions. Certifications required by State Law were executed and incorporated by reference. Original on file with City permit.

END OF PERMIT

Final JM 4/16/15

City of FRESNO

Development and Resource Management Department
Building and Safety Services Division

USDA site
non-contrib building to historic district

APPLICATION FOR DEMOLITION PERMIT

Today's Date 3-17-15 **Site Address** 2021 S. PEACH AVE

Structure(s) to be demolished is/are: (Check all that apply)

☐ Single Family Residence(s) ☐ Multi-Family Residence(s) ☑ Commercial

Address/Location of demolition debris disposal _____

Applicant Name DAVID KNOTT INC Phone Number 559-449-8935

Address 7340 N. TAMERA AVE City, State and Zip FRESNO, CA 93711

Property Owner CITY OF FRESNO Phone Number _____

Address 2600 FRESNO ST City, State and Zip FRESNO, CA 93721

This application must be **filled out completely before** it will be accepted. It is the responsibility of the applicant to obtain and submit the following forms/documents as indicated below:

Note: Requirements below are applicable to **all** building/structures (Single Family Residential, Multi-Family Residential, and Commercial):

1. The Debris and Excavation Certification Form signed by applicant. **(Form Attached)**
2. A Plumbing Permit for a sewer cap, inspection, and approval of same. (Note: The sewer cap permit may be obtained when the Demolition Permit Application is submitted.) Inspection of, and clearance for, the sewer cap, must be completed **prior to** demolition of the structure(s) as stated in Fresno Municipal Code, Section 13-217; and, in the Debris and Excavation Certification Form.
3. A Demolition Release Certification Form, issued and signed by San Joaquin Valley Air Pollution Control District authorized staff.
4. A site plan, drawn to scale, which **clearly indicates** all structures located on the parcel; and, the parcel's North, South, East and West property lines.
5. A signature from authorized staff at the Planning Division Public Front Counter indicating the requirements of any existing entitlement application(s) are met. **(Signature Block below)**
6. A signature from the Historic Preservation Division indicating that the structure(s) proposed for demolition **are not** of historical significance. **(Signature Block below)**

"The parcel's entitlement history has been reviewed and found to be in compliance with the conditions of the existing entitlement application(s), if any."

STEVE Cox — 3-17-~~18~~ 2015

Planning Division Public Counter Staff Signature — Date

"Structure(s) proposed for demolition **are not** considered to be of historical significance."

K Wright — 3/17/15

Historic Preservation Representative — Date

BSD Staff Member _____ OK TO ISSUE 1-DEMO PERMIT FOR ALL BUILDINGS 3/18/15 HTE Application No: 15 - 2734

City of
FRESNO

DEVELOPMENT AND RESOURCE MANAGEMENT DEPARTMENT
BUILDING AND SAFETY SERVICES DIVISION

CONDITIONS TO BE AGREED TO BY ALL PERSONS MAKING APPLICATION FOR DEMOLITION PERMIT

Any person requesting an application for a Demolition Permit shall agree to comply with section 11-218, DEBRIS AND EXCAVATIONS, of the Fresno Municipal Code:

Section 11-218. DEBRIS AND EXCAVATIONS.

It shall be the duty of any person to whom a permit issued for demolition or for the removal of any building, or any section or portion of any building pursuant to the provisions of this article, and of any person leasing, owning, or occupying or controlling any lot or parcel of ground from which a building is removed or demolished to remove all weeds, concrete or stone foundations, flat concrete, concrete patios, masonry walls, garage floors, driveways, and similar structures and all loose, miscellaneous, and useless material, from such lot or parcel of ground, and to properly cap the sanitary sewer house connection, and to properly fill or otherwise protect all basements, cellars, septic tanks, wells, and other excavations, and said lot or parcel shall be left level and in condition to be disked for control of weeds.

It shall be also understood that if any trees are allowed to remain, limbs shall be kept trimmed to provide a minimum clearance of 10 feet above the adjacent ground level to allow for disking as described in FMC section 11-218.

I hereby certify that on this 18TH day of MARCH, 20 15 I have read, understand, and agree to abide by the provisions of the above statement.

2021 S. PEACH AVE
JOB ADDRESS

DAVIS KNOTT INC
APPLICANT'S NAME (PLEASE PRINT)

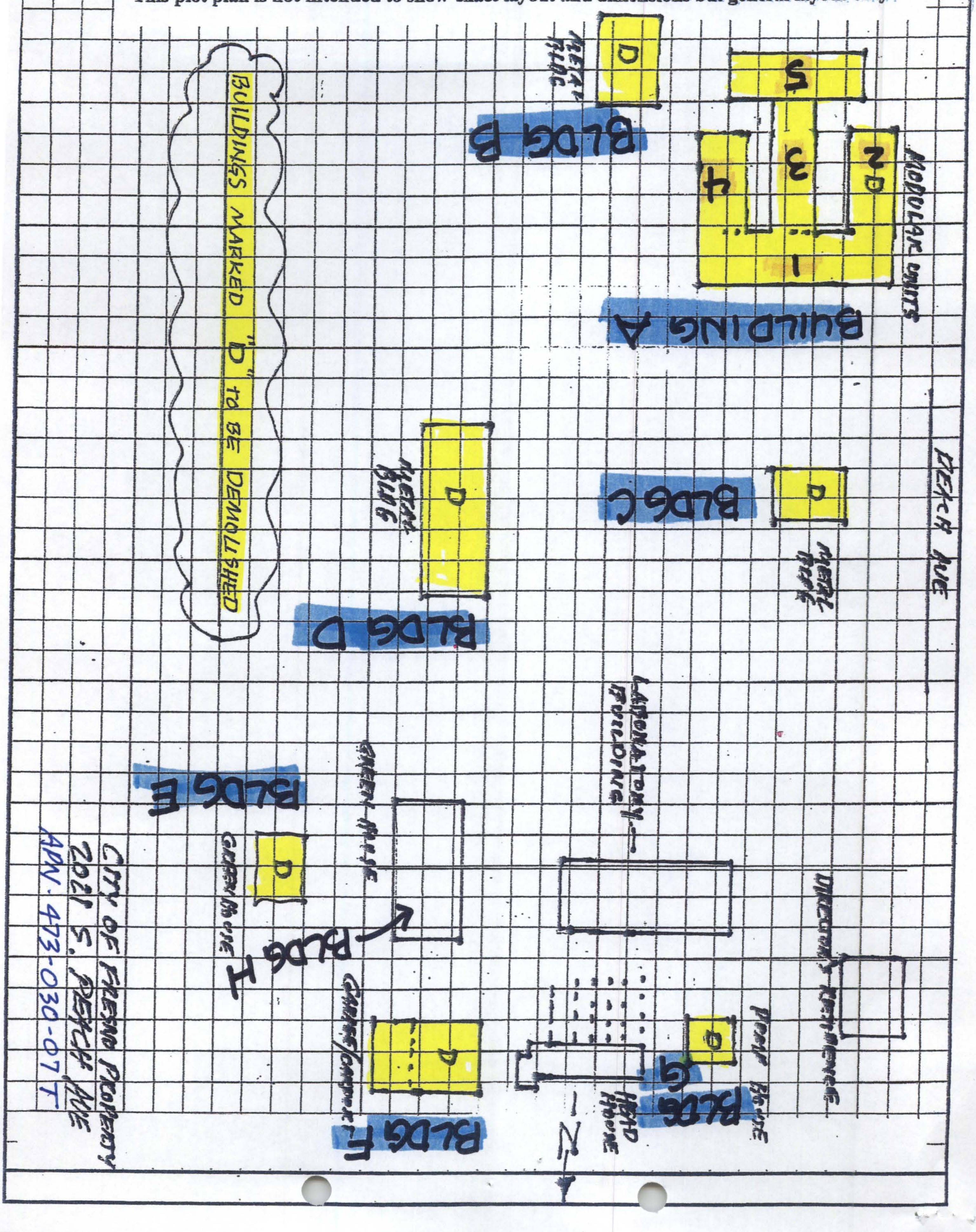
BY
APPLICANT'S SIGNATURE

DRAW TO SCALE AND DIMENSION

PLOT PLAN

SUGGESTED SCALE – ONE SQUARE ______ FEET

This plot plan is not intended to show exact layout and dimensions but general layout only.



SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

☐ **Northern Region Office**
4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400 ♦ FAX (209) 557-6475
(San Joaquin, Stanislaus and Merced Counties)

☑ **Central Region Office**
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000 ♦ FAX (559) 230-6062
(Fresno, Madera and Kings Counties)

☐ **Southern Region Office**
34946 Flyover Court
Bakersfield, CA 93308-9725
(661) 392-5500 ♦ FAX (661) 392-5585
(Tulare and Kern Counties)

DEMOLITION PERMIT RELEASE

The purpose of this form is to verify compliance with or exemption from the National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos **notification** requirements. It is the Applicant's responsibility to obtain the required signature from the District and return this form to the appropriate city or county building department **prior to obtaining a demolition permit.**

Project Description

Job Site Address:	2021 S. PEACH AVENUE	City:	FRESNO	Zip Code:	93727
Owner's name:	City of Fresno	Telephone:	559-621-8425	Fax:	
Owner's Address:	2600 FRESNO STREET, ROOM 3070	City:	FRESNO	Zip Code:	93721
Contractor's Name:	DAVID KNOTT, INC	Telephone:	559-277-0500	Fax:	
Contractor's Address:	7340 N. TAMERA AVENUE	City:	Fresno	Zip Code:	93711

1. **Structure(s) being demolished:**	Yes	No	2. **Proposed project:**	Yes	No
One structure (non-commercial), with four or fewer units. 7 Buildings	☐	☒	Single Family Dwelling	☐	☒
			Subdivision, Retail or Commercial Project	☐	☒
Other (describe): Mobile office, Shops, Water Pump Shed			Public Project (School, Highway, etc..)	☐	☒
Is demolition by intentional burning?	☐	☒	Other (describe):		

Comments:

BY _____ President 3-18-15
Signature of applicant — Title — Date

FOR SJVUAPCD USE ONLY

☑ This certifies that the demolition applicant has satisfied the APCD's notification requirements. The APCD allows the demolition to proceed on or after March 17, 2015.

☐ This certifies that the Demolition application is exempt from the APCD's requirements.

District approval on this form only indicates compliance with or exemption from the NESHAP notification requirements. Enforcement action will be taken if asbestos NESHAP violations are found at the project.

Further, there are other agencies that regulate the handling and disposal of ACM, such as OSHA, Cal-OSHA, and DTSC regardless of NESHAP applicability to your property.

Comments:

Printed Name: Lupe Jauregui Title: Supervising AQT

Approval Signature: Lupe Jauregui Date: 3/18/2015

JAP

City of FRESNO

Planning and Development Department

2600 Fresno Street, Third Floor
Fresno, California 93721-3604
(559) 621-8277 FAX (559) 498-1012

Keith Bergthold, Interim-Director

August 5, 2009

Please reply to:
Franklin Spees
(559) 621-8181

David Chaffee
2600 Fresno Street
Fresno, California 93721
David.chaffee@fresno.gov

SUBJECT: SITE PLAN REVIEW APPLICATION NO. S-09-077 (MAJOR REVISED EXHIBIT) FOR PROPERTY LOCATED AT 2021 SOUTH PEACH AVENUE TO AUTHORIZE THE INSTALLATION OF A COMMUNITY GARDEN (APN: 473-030-07T)

Mr. Chaffee,

The Planning and Development Department Director on July 21, 2009, approved the above application subject to specific conditions of approval. Site Plan Review Application No. S-09-077 is a request to authorize and establish a community garden to be developed by the Parks Department on City owned land located approximately on the eastern three acre portion of 2021 South Peach Avenue. The garden is proposed to consist of (96) ninety-six 25' x 25' plots, each individually irrigated. Garden products produced are not to be sold on site or at any other location.

This project is exempt under Section 15304/Class 4 of the California Environmental Quality Act (CEQA) Guidelines. A Class 4 categorical exemption was prepared on July 21, 2009. No further environmental assessment is required.

The Director's approval of the Site Plan Review on July 21, 2009, commenced a fifteen-day comment/appeal period. As of August 5, 2009 no appeals or written comments have been received. The necessary permits may be obtained subject to the fulfillment of the following conditions of approval:

CONDITIONS OF APPROVAL

1. Development of the subject property shall take place in accordance with Exhibits "A" & "O" dated July 21, 2009.

2. Development shall take place in accordance with the AE-5 (*Exclusive Five Acre Agricultural District)* zone district, as defined in the Fresno Municipal Code, in §12-205.

3. Development shall take place in accordance with the requirements of the County of Fresno, Department of Public Health. Contact Glenn Allen, Environmental Health Specialist III, (559) 445-3357.

4. The community garden use is limited to the cultivation of a variety of horticultural products for personal consumption.

5. The use of any plot under control of the Parks, Recreation, Afterschool and Community Services Department, and/or within an existing park, for the purpose of cultivating horticultural product for retail or commercial resale or consumption is expressly prohibited.

6. The applicant shall bear the responsibility to complete all required and appropriate environmental assessment of the project site as it relates to the soil and the proposed use gardening use.

7. Development shall take place in accordance with the Standards Specifications and Standard Drawings of the City of Fresno Public Works Department.

8. Any building or structure constructed on the subject property must comply with the prevailing California Building Code standards.

9. Development shall take place in accordance with all city, county, state and federal laws and regulations.

EXPIRATION DATES

The exercise of rights granted by this special permit must be commenced by **July 21, 2013**, four years from the date of approval. There is no extension. Issuance of building permits for tenant improvements related to this facility constitutes "exercise of rights," provided that construction work is completed and approved within permit timeframe.

In order to remain in force, the use approved under Site Plan Review No. S-09-077 must continue without a break or hiatus of one year or more. Should the use be discontinued for any one-year period, it cannot be recommenced unless another conditional use permit application is approved.

Should you need further assistance or have any questions, please contact me at 559- 621-8181 or via e-mail at Franklin.Spees@fresno.gov.

Sincerely,

Franklin Spees
Planner

Enclosures: Exhibits "A" & "O" dated July 21, 2009.

c: Job Address File – 2021 S. Peach Avenue

CITY OF FRESNO

Planning & Development Department
Building and Safety Division
Building Section
Fax Inspection

2600 Fresno Street
Fresno, Ca. 937214
Tel: (559)621-8116
Tel: (559)498-4357

Application Number	09-00005632	Date	7/23/09
Application pin number . . .	613888		
Property Address	2021 S PEACH AVE		
Assessor's Parcel Number . .	473-030-07 T		
Tract Lot			
Application type description	COMMERCIAL ALTERATION		
Subdivision Name			
Property Use			
Property Zoning	EXCLUSIVE FIVE ACRE AGRIC		
Application valuation	50000		

Owner	Contractor
U S DEPT OF AGRI	

--- Structure Information 000 000 COMMUNITY GARDEN
Other struct info . . . . . APPLICATION ACCEPTED BY JENN
CODE YEAR 2007

Permit	BUILDING COMMERCIAL ADD/ALT		
Additional desc . .	DE AGENT/BUILDER (CITY)		
Phone Access Code .	3466919		
Permit pin number .	3466919		
Permit Fee	687.10	Plan Check Fee . .	584.04
Issue Date	7/23/09	Valuation	50000
Expiration Date . .	1/19/10		

Special Notes and Comments
COMMUNITY GARDEN

Other Fees	BUILDING STANDARDS ADMIN	2.00
	MICROFILM FEES	5.25
	WASTE DIVERSION FEE	17.70
	SEISMIC FEE COMMERCIAL	10.50
	WORKERSCOMP	7.40

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	687.10	.00	.00	687.10
Plan Check Total	584.04	584.04	.00	.00
Other Fee Total	42.85	.00	.00	42.85
Grand Total	1313.99	584.04	.00	729.95

NOTE:"Other Fees" & "Other Fee Total" may include amounts from previous transactions. Certifications required by State Law were executed and incorporated by reference. Original on file with City permit.

T Final 9-10-09 CM

CITY OF FRESNO

Planning & Development Department
Building and Safety Division
Plumbing Section
Fax Inspection

2600 Fresno Street
Fresno, Ca. 93721
Tel: (559)621-8116
Tel: (559)498-4357

Application Number . . . . . 09-00005632 Date 7/23/09
Application pin number . . . 613888
Property Address . . . . . 2021 S PEACH AVE
Assessor's Parcel Number . . 473-030-07 T
Tract Lot . . . . . .
Application type description COMMERCIAL ALTERATION
Subdivision Name . . . . . .
Property Use . . . . . .
Property Zoning . . . . . EXCLUSIVE FIVE ACRE AGRIC
Application valuation 50000

Owner	Contractor
U S DEPT OF AGRI	OWNER

.... .. @

--- Structure Information 000 000 COMMUNITY GARDEN
Other struct info . . . . . CODE YEAR 2007

Permit . . . . . PLUMBING COMMERCIAL ADD/ALT
Additional desc . . DE AGENT/BUILDER (CITY)
Phone Access Code . 3467081
Permit pin number . 3467081
Permit Fee . . . . 1589.50 Plan Check Fee . . 445.06
Issue Date . . . . 7/23/09 Valuation 0
Expiration Date . . 1/19/10

Qty	Unit Charge	Per		Extension
			BASE FEE	20.00
96.00	9.5000	EA	HOSE BIBB	912.00
1.00	11.5000	EA	BACKFLOW PREVENT	11.50
680.00	.9500	FT	WATER PIPE >4" WITH SERVICE	646.00

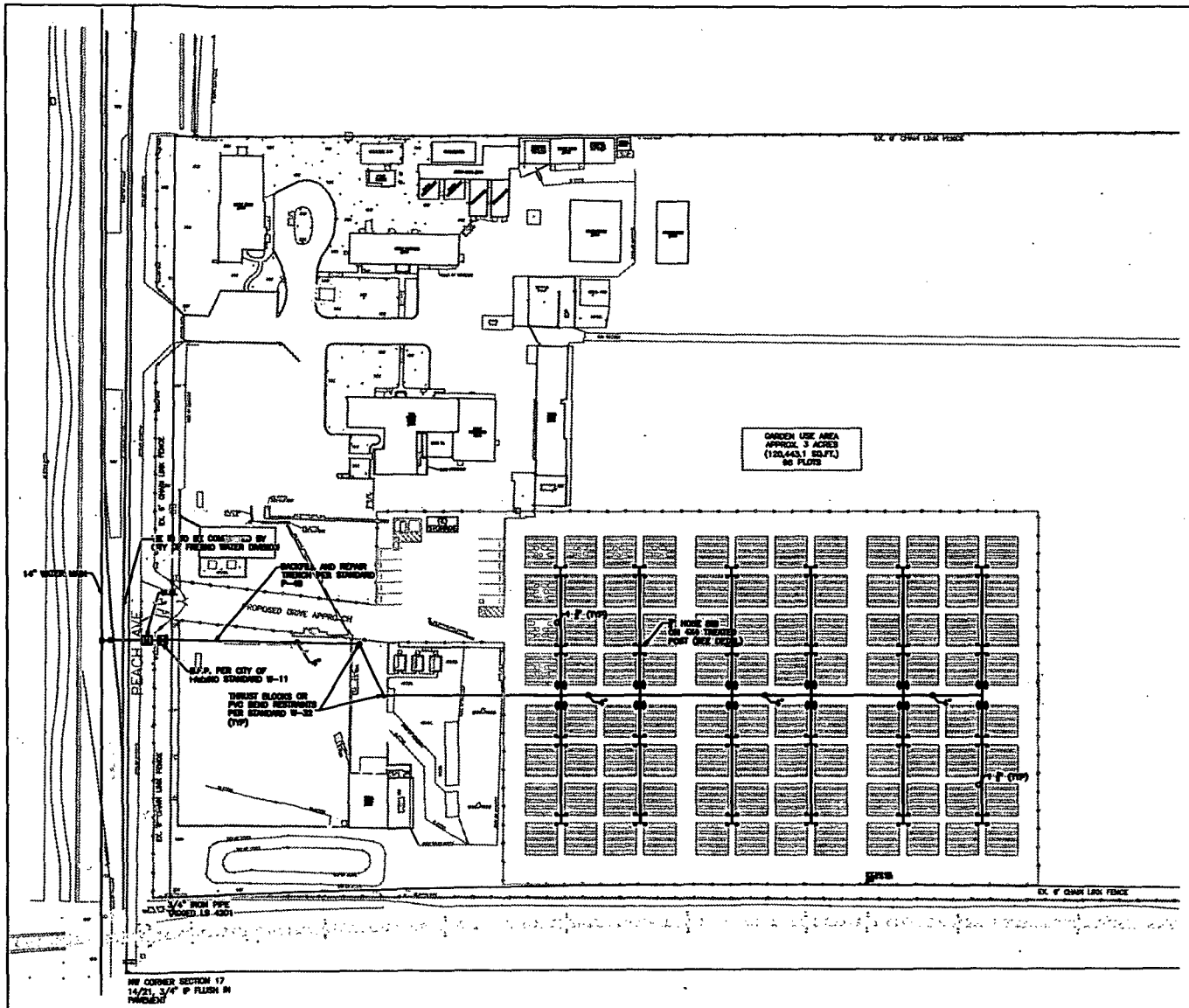
Special Notes and Comments
COMMUNITY GARDEN

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	1589.50	.00	.00	1589.50
Plan Check Total	445.06	445.06	.00	.00
Grand Total	2034.56	445.06	.00	1589.50

Note: "Other Fees" & "Other Fee Total" may include amounts from previous transactions. Certifications required by State Law were executed and incorporated by reference. Original on file with City permit.

END OF PERMIT

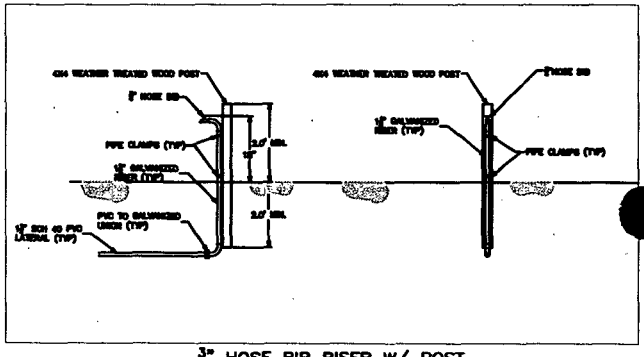
Issued 8/14/09 hp



IRRIGATION LEGEND	
SYMBOL	DESCRIPTION – MANUFACTURER – MODEL #
	NEW IRRIGATION POINT OF CONNECTION – INSTALLATION BY CITY OF FRESNO
	NEW (2") WATER METER (NEPTUNE SPECTRUM 440) AND 4" SERVICE LINE – INSTALLATION BY CITY OF FRESNO
	BACKFLOW PREVENTION ASSEMBLY (4") – WILKINS – 375 OR EQUIVALENT W/ WEATHER GUARD BLANKET (PER CITY OF FRESNO STANDARD DETAIL W-11)
	GATE/BALL VALVE – PVC (1/2" UP TO 4") – LINE SIZE AS NOTED
	PRESSURE MAINLINE – SCH. 40 PVC PIPE – DEPTH TO BE 24" TO 30" BELOW GRADE.
	1" HOSE CONNECTIONS WITH 4X4 POST (SEE 1" HOSE BIB RISER W POST DETAIL)

WATER PRESSURE CALCULATIONS			
STATIC PRESSURE (PSI):		33 PSI*	ASSUMING 33PSI AT THE METER
WATER PRESSURE LOSS CALCULATIONS			
#	INFO	DESCRIPTION	PSI LOSS
1	4"	4" NEPTUNE SPECTRUM 440	7.25
2	4"	4" WILKINS 375 BACKFLOW	7.25
3	240'	4" SCH 40 PVC PIPE RUN	2.11
4	225'	3" SCH 40 PVC PIPE RUN	1.88
5	125'	2" SCH 40 PVC PIPE RUN	1.19
6	100'	1" SCH 40 PVC LATERAL	0.88
6	10%	FITTING LOSS (10% OF MAINLINE LOSS)	0.62
7	86 – 1"	(86) 1" HOSE BIBS	N/A
8	4" & 1.5"	GATE/BALL VALVES (12 @ .25)	3.25
9	TOTAL SYSTEM PRESSURE LOSS (PSI)		26.39
10	TOTAL PRESSURE SUPPLIED (PSI)		40.00
11	TOTAL PRESSURE SUPPLIED AT HOSE BIB (PSI)		13.60

NOTE:
INSTALL BACK FLOW PREVENTER WITH BOTTOM AT ELEVATION 308.0' OR HIGHER



1" HOSE BIB RISER W/ POST
SCALE: NTS

CITY OF FRESNO
CONSTRUCTION OF COMMUNITY GARDENS
2021 SOUTH PEACH AVENUE
IRRIGATION LAYOUT
X-X-XX

09 5632

City of
FRESNO
DEVELOPMENT DEPARTMENT

Project Address 2021 S. Birch, Fresno CA

Project No. 09 5632

APPLICATION TYPE: BLDG X ELEC ____ PLBG X MECH ____ GRAD ____ OTHER ____

DRAW DOWN ___ ACCT NO: ____ ACCT NAME ____

SPECIAL CONDITIONS

WORKERS COMPENSATION

Section 3800 of the State labor Code provides that every county or city which requires issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition, or repair of any building or structure shall require that each applicant for permit have on file:

(please initial)

____ A Certificate of Consent to self-insure by the Director of Industrial Relations or

____ A Certificate of Workers' Compensation Insurance issued to the city be an admitted insurer.

____ A signed statement of a Firm Without Employees on file with the city.

EXCLUSIONS

(please initial)

____ Permits for work costing $100.00 or less.

____ Applicants for permits who sign the following certifications:

"I certify that in the performance of the work for which this permit is issued I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California"

If after signing this certificate, the applicant desires to employ any person for work covered by this permit, the applicant must obtain Workers' Compensation Insurance as required by Section 3700 of the State Labor Code, or this permit shall be deemed revoked.

STATE REQUIRED LICENSE

I hereby affirm under penalty of perjury that I am licensed under provisions or Chapter 9 of Division 3 of the Business and Professions Code, and my license is in full force and effect. ***License No.*** ____

EXEMPTION FROM STATE REQUIRED LICENSING

(please initial)

JP I am the owner of the property addressed on the subject permit application. The building or improving of structures hereon, or appurtenances thereto, will be done by myself or through my own employees with wages as their sole compensation. The structure or structures, with or without the appurtenances thereto, is not intended to be and will not be offered for sale within one year after completion of same (Section 7044).

____ As owner of the property the building or improving of structures or appurtenances thereto will be contracted with licensed contractors. (Section 7044)

____ Aggregate total of the contracts is not more than $300.00 for labor, materials, and all other work. (Section 7048)

____ I am a licensed architect, engineer, or structural pest control operator within the scope of my license. (Section 7051)

Print firm name: ____

HAZARDOUS WASTE AND SUBSTANCE SITES

I declare that I have made application for a permit to develop property at Fresno California. I have consulted the list of Hazardous Waste and Substance Sites developed by the State Office of Planning and Research pursuant to GC Section 65962.5.

(please initial)

____ I have determined that the said property is not included on a list compiled pursuant to this section.

____ I have determined that the said property is included on a list compiled pursuant to this section.

I further declare under penalty of perjury under the laws of the State of California, that the foregoing is true and correct.

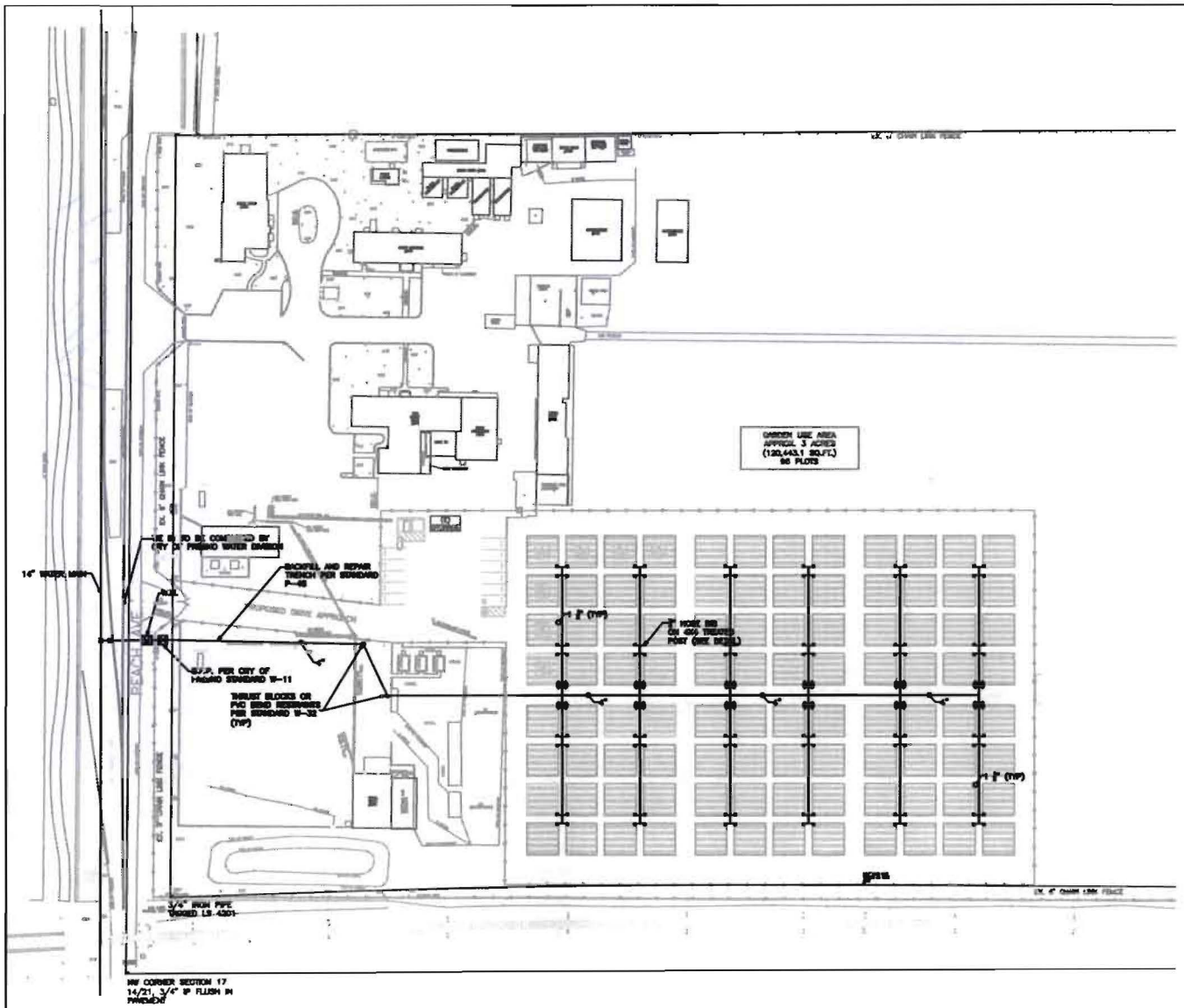
DATED THIS 23rd DAY OF July 20 09

SIGNED ____ PHONE NUMBER 621 8913

Print name David P. Cleek Team Member ____

RECORD COPY Mong Project only per Steve Song 7-16-09 vb

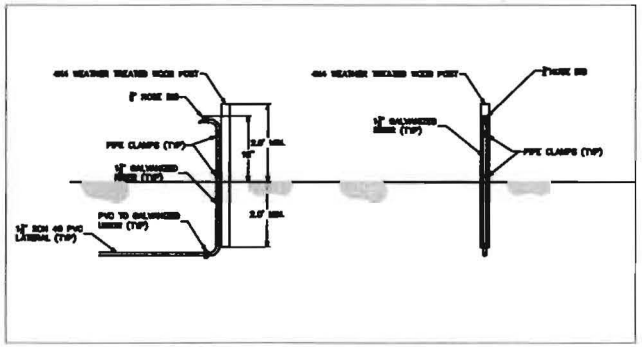
2021 S. Peach 09-5632



IRRIGATION LEGEND	
SYMBOL	DESCRIPTION – MANUFACTURER – MODEL #
	NEW IRRIGATION POINT OF CONNECTION – INSTALLATION BY CITY OF FRESNO
	NEW (4") WATER METER (NEPTUNE SPECTRUM 440) AND 4" SERVICE LINE – INSTALLATION BY CITY OF FRESNO
	BACKFLOW PREVENTION ASSEMBLY (4") – WILKINS – 375 OR EQUIVALENT W/ WEATHER GUARD BLANKET (PER CITY OF FRESNO STANDARD DETAIL W-11)
	GATE/BALL VALVE – PVC (½" UP TO 4") – LINE SIZE AS NOTED
	PRESSURE MAINLINE – SCH. 40 PVC PIPE – DEPTH TO BE 24" TO 30" BELOW GRADE
	3/4" HOSE CONNECTIONS WITH 4X4 POST (SEE 3/4" HOSE BIB RISER W POST DETAIL)

WATER PRESSURE CALCULATIONS			
STATIC PRESSURE (PSI):		33 PSP	ASSUMING 33PSI AT THE METER
WATER PRESSURE LOSS CALCULATIONS			
#	INFO	DESCRIPTION	PSI LOSS
1	4"	4" NETRON SPECTRUM 440	7.35
2	4"	4" WILKINS 375 BACKFLOW	7.35
3	240'	4" SCH 40 PVC PIPE RUN	2.11
4	220'	4" SCH 40 PVC PIPE RUN	1.68
5	135'	2" SCH 40 PVC PIPE RUN	1.19
6	100'	1 ½" SCH 40 PVC LATERAL	0.89
9	10%	FITTING LOSS (10% OF MAINLINE LOSS)	0.62
7	96 – ¾"	(96) ¾" HOSE BIBS	N/A
8	4" @ 1.5'	GATE/BALL VALVES (13 @ .26)	3.38
9	TOTAL SYSTEM PRESSURE LOSS (PSI)		26.35
10	TOTAL PRESSURE SUPPLIED (PSI)		40.00
11	TOTAL PRESSURE SUPPLIED AT HOSE BIB (PSI)		13.65

NOTE:
INSTALL BACK FLOW PREVENTER WITH BOTTOM AT ELEVATION 338.0' OR HIGHER



¾" HOSE BIB RISER W/ POST
SCALE: NTS

CITY OF FRESNO
Department of Public Works
CONSTRUCTION OF COMMUNITY GARDENS
2021 SOUTH PEACH AVENUE
IRRIGATION LAYOUT
K-E-XX

T Faxed 8-14-09 LP

09 5632

City of FRESNO

PUBLIC UTILITY
APPLICATION FOR STREET WORK PERMIT

EAST RECEIVED
JUN 23 2011
PUBLIC WORKS CONSTRUCTION MANAGEMENT DIVISION

ALL WORK SHALL COMPLY WITH THE CITY OF FRESNO PUBLIC WORKS DEPARTMENT SPECIFICATIONS

Job Address: 2021 S. PEACH

Job Description: 5'x5' BELLHOLE FOR GAS CUT OFF

Utility Company: P.G. + E.

Address: 8 RIVER PARK PL E. | City: FRESNO | Zip: 93720

By: [signature] MCELHANEY | Date: 6.15.11 | Phone: 263.7369
(Authorized Signature)

DIAGRAM OF WORK REQUIRED (INDICATE NORTH AND SHOW THE EXISTING AND NEW WORK)

PM-30 05 64 78

1.) SEE ATTACHED
2) 90 DAY WINDOW OF CONST. FROM 6/22/11.

T.C.P. REQ'D

2011-373

Total Inspection Fees: $ 195.00

OPEN CUT ✓ *BORE* _____

BY: J. Beck *DATE* 6/24/11

Reviewed By: _____

TRAFFIC CONTROL REQUIREMENTS

Standard Requirements 9-4 pm

Public Works Engineering: _____

Special Requirements, See Attached _____

NOTICE TO CONTRACTORS

THIS PERMIT IS NOT VALID UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE PUBLIC WORKS DIRECTOR. THIS APPLICATION MUST BE RECEIVED AND REVIEWED BY THE CONSTRUCTION MANAGEMENT DIVISION AT 1721 VAN NESS AVENUE PRIOR TO APPROVAL. ANY WORK DONE PRIOR TO APPROVAL IS SUBJECT TO IMMEDIATE REJECTION. ALL INSPECTIONS AND/OR JOB MEETINGS SHALL BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE BY CALLING THE CONSTRUCTION MANAGEMENT DIVISION AT 621-5600. HAVE A REPRESENTATIVE AT THE JOB SITE AT THE SCHEDULED TIME.

Contractor: _____ License Number: _____

Address: _____ City: _____ Zip: _____

By: _____ Date: _____ Phone: _____
(Authorized Signature)

Inspector: [signature]

Date Checked: 6-29-11

Staked Requested: _____

Party Chief or Eng: _____

Work to be done by Street Dept: _____

Workmans Comp _____

Liability Insurance & _____

Performance Bond _____

Verified by: _____ *Date:* _____

Inspectors Remarks: PROVIDE AN APPROVED TRAFFIC CONTROL PLAN

Accepted by: [signature] *Date:* 7-12-11

Permission is hereby granted to the above applicant to do the above described work: in compliance with Art. 2, Chapter II of the Fresno Municipal Code.

PUBLIC WORKS DIRECTOR

By: [signature] *Date:* 7-14-11

ROUTING:

(1) P.W. ENGR.
(2) UTILITY CO.
(3) Construction Mgmt. - Applicant

ENCROACHMENT PERMIT DRAWING

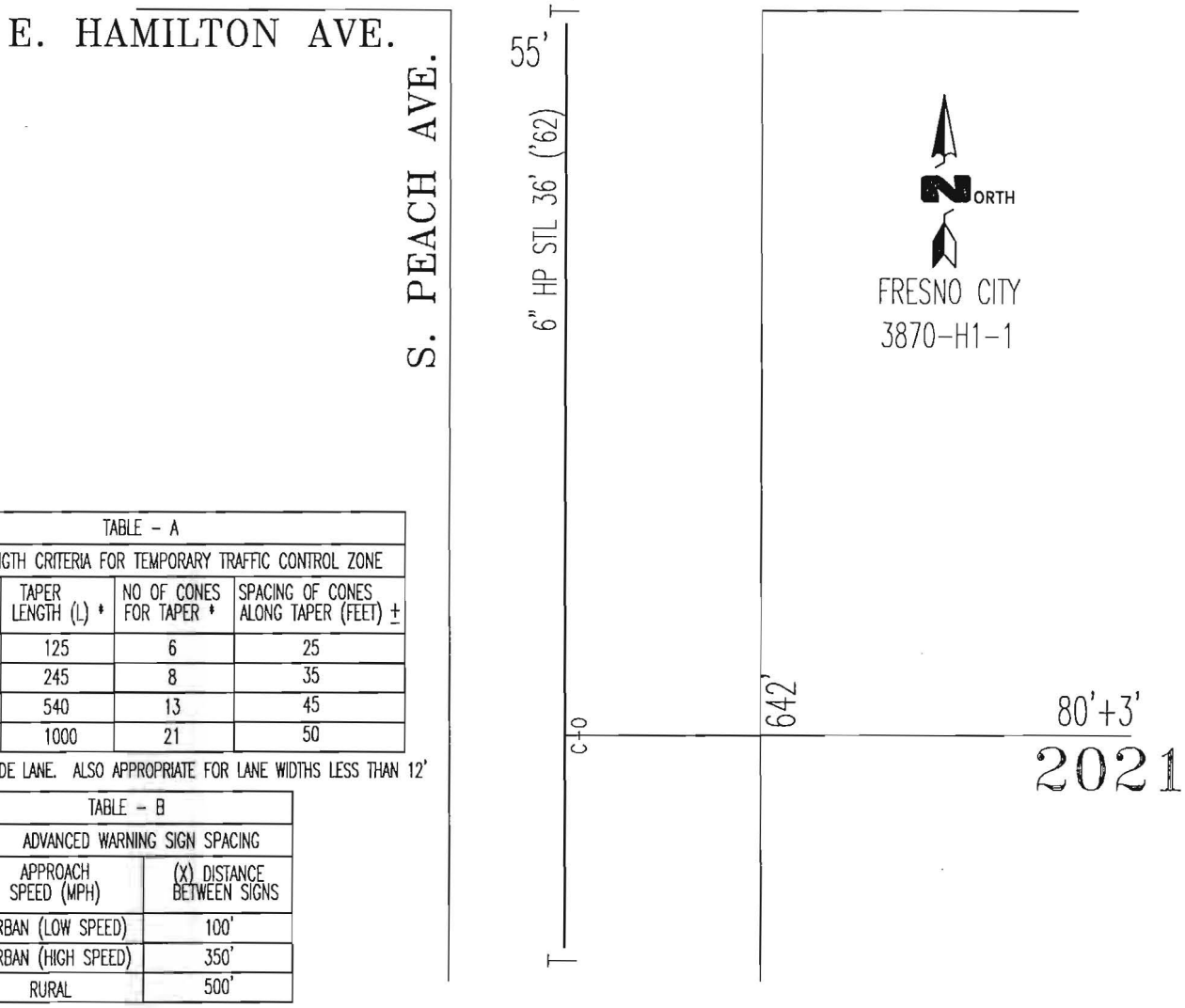


TABLE - A			
TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONE			
APPROACH SPEED (MPH)	TAPER LENGTH (L) *	NO OF CONES FOR TAPER *	SPACING OF CONES ALONG TAPER (FEET) ±
25	125	6	25
35	245	8	35
45	540	13	45
50+	1000	21	50

* BASED ON 12' WIDE LANE. ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12'

TABLE - B	
ADVANCED WARNING SIGN SPACING	
APPROACH SPEED (MPH)	(X) DISTANCE BETWEEN SIGNS
URBAN (LOW SPEED)	100'
URBAN (HIGH SPEED)	350'
RURAL	500'

WORK NOTES:
1. DEACTIVATE EXISTING 3/4" STEEL GAS SERVICE
2. 5' X 5' BELLHOLE EXPECTED

BELL HOLE LOCATION:
642' S/S PL E. HAMILTON AVE.
36' E/W PL S. PEACH AVE.

MARK SHOULET (903-2489)
PG&E CO.
CONSTRUCTION CO-ORDINATOR

1. TWO LANE ROAD.
2. BELLHOLE WILL BE IN ASPHALT
3. MAINTENANCE WORK TO INSTALL ANODE
4. TRAFFIC CONTROL SYSTEM WILL BE PER STATE CODE.
5. NO TRAFFIC CONTROL DRAWING REQUIRED ON THIS MAINTENANCE PROJECT.

EST: MCELHANEY	ENCROACHMENT PERMIT DRAWING	CO:	
ADE: MCELHANEY	PG&E	SD:	
SUPV: MACPHERSON	2021 S. PEACH AVE., FRESNO	NOTIF: 105321125	
REP: JOANN KOOYMAN	PACIFIC GAS AND ELECTRIC COMPANY	OTHER:	
PLNR:		SHT: 1 of 1	SHEETS
SCALE: NTS / DATE: 6/15/11		PM: 30856478	REV. 0

ENCROACHMENT PERMIT DRAWING

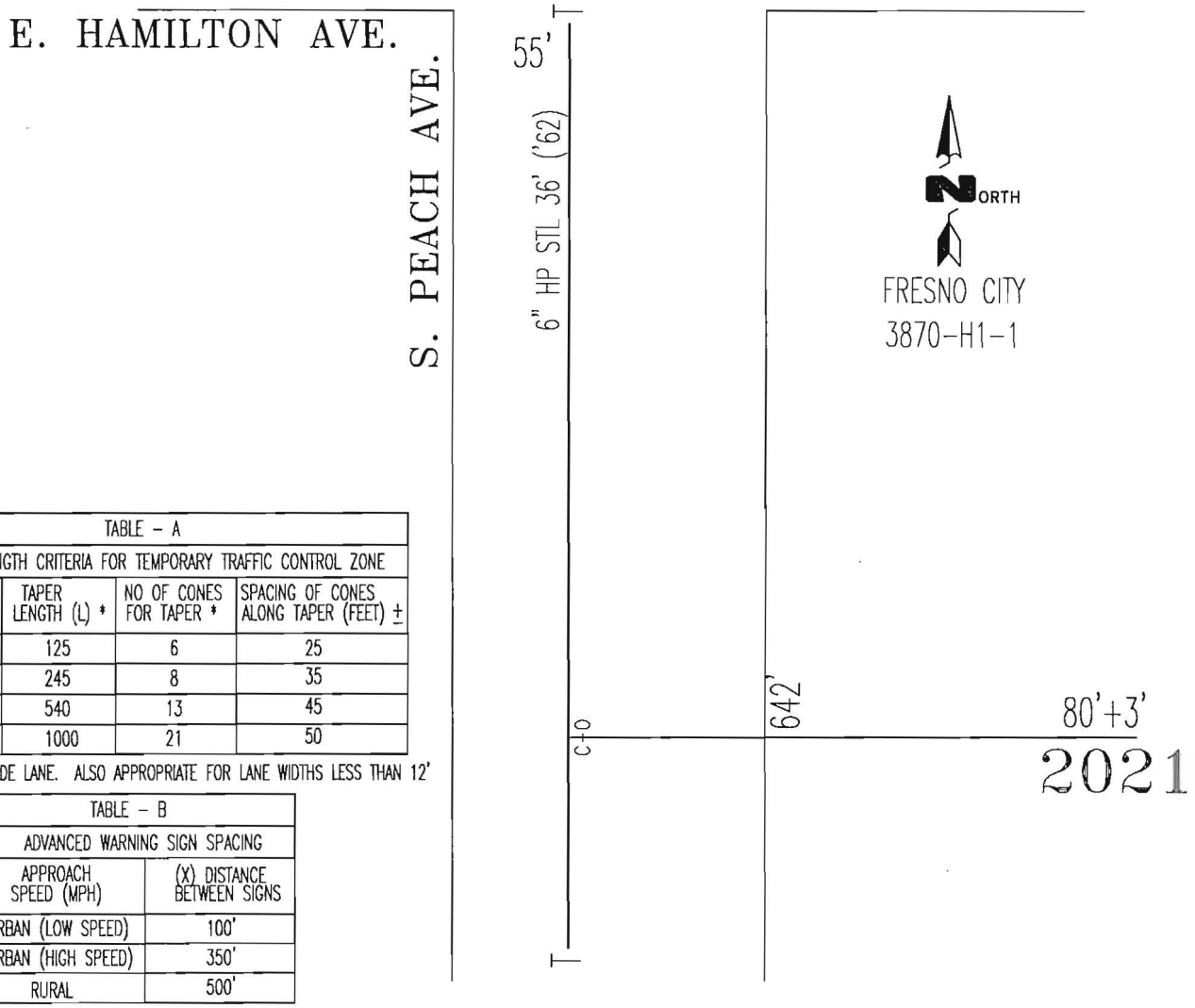


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EST: MCELHANEY	ENCROACHMENT PERMIT DRAWING PG&E 2021 S. PEACH AVE., FRESNO PACIFIC GAS AND ELECTRIC COMPANY	CO:	
ADE: MCELHANEY		SD:	
SUPV: MACPHERSON		NOTIF: 105321125	
REP: JOANN KOOYMAN		OTHER:	
PLNR:		SHT: 1 of 1	SHEETS
SCALE: NTS / DATE: 6/15/11		PM: 30856478	REV. 0

ENCROACHMENT PERMIT DRAWING

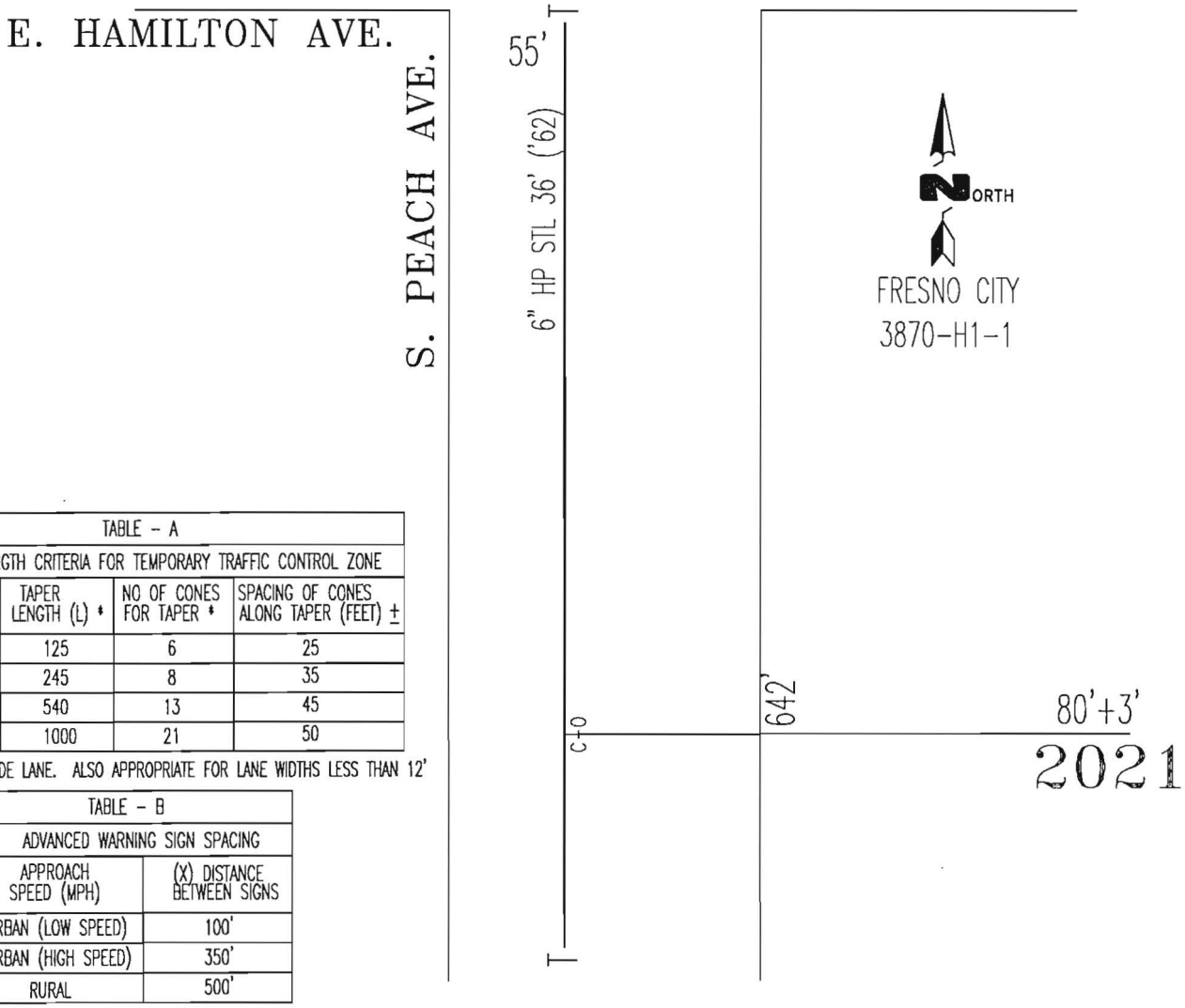


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ADE: MCELHANEY		SD:	
SUPV: MACPHERSON		NOTIF: 105321125	
REP: JOANN KOOYMAN		OTHER:	
PLNR:		SHT: 1 of 1	SHEETS
SCALE: NTS / DATE: 6/15/11		PM: 30856478	REV. 0

OFFICE COMPLETION

Smallest Number — ADDRESS (1 2 3 4 5 6 7 | 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | 23 24 25 26) — 27

SECTION — FIRE DEPARTMENT

TYPE OF IMPROVEMENT (28) Check one see section on front: 1 2 3 4 5 6 7

PROPOSED USE (29 30 31 32 33) Use code numbers section on front

ISSUED DATE (34 35 MONTH | 36 37 DATE | 38 39 YEAR) See front

KEY

SHOW THE RESULT OR **ACTION** TAKEN FOR EACH TYPE OF INSPECTION

1 APPROVED
2 CORRECTION
3 CANCELLATION
4 FINAL

INSPECTION RECORD

Consultant Number (40 41)	Month (42 43)	Day (44 45)	Year (46 47)	Time (48 49 50)	Prog. (51 52)	Sub (53 54)	Func (55 56)	Action (1 2 3 4)	Type of Inspection	Remarks

CLEARED TO:	DATE:
SAFE TO OCCUPY/STOCK	DATE:
INCORRECT ADDRESS	(29.00)
REQUESTED INSPECTION NOT READY FOR INSP.	(29.00)
RE-INSPECTION FEE AFTER 2ND TRIP	(40.00)

CONSULTANT COMPLETION

TOTAL NUMBER OF INSPECTIONS (66 67 68)

TOTAL NUMBER OF CORRECTIONS (69 70)

PERMIT CANCELLED 3 (71)

PERMIT FINALED 4

	CONSULTANT NO	DATE	CONSULTANT SIGNATURE
ADDRESS INSTALLED			
PLANNING REQUIREMENTS			
PUBLIC WORKS REQUIREMENTS			
FIRE DEPARTMENT FINAL	(72 73) 06	(74 75 month | 76 77 day | 78 79 year) 12 01	RF

TO: **COUNTY OF FRESNO**

DEPARTMENT OF HEALTH
UNDERGROUND STORAGE TANK PROGRAM
P.O. Box 11867
FRESNO, CALIFORNIA 93775

GRADING PERMIT STATUS

IN CONJUNCTION WITH THE REMOVAL OF UNDERGROUND PETROLEUM STORAGE TANKS

This form is to provide the County of Fresno with information regarding the grading (or excavation/compaction) permit status relative to the proposed ***removal of underground petroleum storage tanks*** at the following site:

This form must be presented to Fresno County Environmental Health System ***prior to*** obtaining an underground storage tank abandonment permit.

Address: 2021 S PEACH

City/County: FRESNO CITY

Nearest Cross Street or Road: E CALIFORNIA

A grading permit was issued on MAY 3 '95 for this site ☑

A grading permit ***is not required*** by this jurisdiction for excavation and or backfilling in conjunction with the removal of underground storage tanks at this site. ☐

Comments:

TANK REMOVAL & BACK FILL

CITY/COUNTY OF

DAVE EDGAR
Printed name of official

Signature of official

490-1375
Phone number

5-3-95
Date

White Copy Building Dept File Yellow County Health Dept Blue Applicant 6/91

Southeast Fresno Regional Park
2155 South Peach Avenue
Fresno, CA 93727

Inquiry Number: 6281215.5
November 30, 2020

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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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.

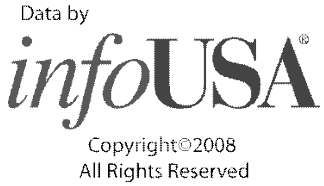
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified 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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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	-
2004	Cole Information Services	-	X	X	-
2002	R.L. Polk & Co Publishers	-	X	X	-
1999	Cole Information Services	-	X	X	-
1996	R.L. Polk & Co Publishers	-	X	X	-
1994	Cole Information Services	-	X	X	-
1990	R.L. Polk & Co Publishers	-	X	X	-
1986	R.L. Polk & Co Publishers	-	X	X	-
1980	R.L. Polk & Co Publishers	-	X	X	-
	R.L. Polk & Co Publishers	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1975	R.L. Polk & Co Publishers	-	X	X	-
	R.L. Polk & Co Publishers	X	X	X	-
1970	R.L. Polk & Co Publisher	-	X	X	-
	R.L. Polk & Co Publisher	X	X	X	-
1965	R.L. Polk & Co Publisher	-	X	X	-
	R.L. Polk & Co Publisher	X	X	X	-
1962	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1958	R.L. Polk & Co Publishers	-	X	X	-
1952	R.L. Polk & Co Publishers	-	-	-	-
1947	R.L. Polk & Co Publishers	-	-	-	-
1942	R.L. Polk & Co Publishers	-	-	-	-
1937	R.L. Polk & Co Publishers	-	-	-	-
1932	R.L. Polk & Co Publishers	-	-	-	-
1927	R.L. Polk & Co Publishers	-	-	-	-
1922	Polk: Husted Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
2122 South Peach Avenue	Client Entered	
2108 South Peach Avenue	Client Entered	X
2021 South Peach Avenue	Client Entered	X
2221 South Peach Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2155 South Peach Avenue
Fresno, CA 93727

FINDINGS DETAIL

Target Property research detail.

S PEACH AVE

2155 S PEACH AVE

Year	*Uses*	*Source*
1980	Henrietta Rancho Of Cal fruit concentrates	R.L. Polk & Co Publishers
1975	Henrietta Rancho Products Co fruit concentrates	R.L. Polk & Co Publishers
1970	Henrietta Rancho Products Co fruit concentrates	R.L. Polk & Co Publisher
1965	HENRIETTA RANCHO PRODUCTS CO FRUIT CONCENTRATES	R.L. Polk & Co Publisher
1962	He nrietta Ranch o Products Co fruit juices CL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

E DWIGHT WAY

5158 E DWIGHT WAY

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	DEBBIE FLORES	Cole Information Services
2004	MARK PINTO	Cole Information Services
2002	DBobo Lanetta J	R.L. Polk & Co Publishers
1999	DEBBIE FLORES	Cole Information Services
1990	Robb Gerald	R.L. Polk & Co Publishers
1986	Robb Gerald	R.L. Polk & Co Publishers
1980	Robb Gerald	R.L. Polk & Co Publishers

5161 E DWIGHT WAY

Year	Uses	Source
2017	DANIEL SOTO	Cole Information Services
2014	DANIEL SOTO	Cole Information Services
2009	ARTHUR SOTO	Cole Information Services
2004	ARTHUR SOTO	Cole Information Services
2002	Soto Danny 0 & Josefina	R.L. Polk & Co Publishers
1999	ARTHUR SOTO	Cole Information Services
1990	White Steph	R.L. Polk & Co Publishers
1986	White Steph T	R.L. Polk & Co Publishers
1980	White Steph T	R.L. Polk & Co Publishers

5164 E DWIGHT WAY

Year	Uses	Source
2017	CHARLES EMBREY	Cole Information Services
2014	CHARLES EMBREY	Cole Information Services
2009	LEE THOR	Cole Information Services
2004	BRENDA TUTTLE	Cole Information Services
2002	Sugimoto Yoshitaka El	R.L. Polk & Co Publishers
1999	LEE THOR	Cole Information Services
1990	Tuttle Brenda	R.L. Polk & Co Publishers
1986	Tuttle Brenda	R.L. Polk & Co Publishers

FINDINGS

Year	Uses	Source
1980	Tuttle S	R.L. Polk & Co Publishers

5167 E DWIGHT WAY

Year	Uses	Source
2017	ANTONIO ESPINOSA	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	ANTONIO OVALLE	Cole Information Services
2004	ANTONIO OVALLE	Cole Information Services
2002	Ovalle Antonio C & Celina	R.L. Polk & Co Publishers
1999	ANTONIO OVALLE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	TOWERY, JOHN	Cole Information Services
1990	Towery John H	R.L. Polk & Co Publishers
1986	Towery John H	R.L. Polk & Co Publishers
1980	Towery John	R.L. Polk & Co Publishers

5170 E DWIGHT WAY

Year	Uses	Source
2017	GARY SMITH	Cole Information Services
2014	ACKAISHA SMITH	Cole Information Services
2009	GARY SMITH	Cole Information Services
2002	Smith Gary L B 1+ d	R.L. Polk & Co Publishers
1999	GARY SMITH	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1996	Smith Gary L	R.L. Polk & Co Publishers
1994	SMITH, GARY L	Cole Information Services
1990	Smith Gary L	R.L. Polk & Co Publishers
1986	Smith Gary L	R.L. Polk & Co Publishers
1980	Smith Gary L	R.L. Polk & Co Publishers

5173 E DWIGHT WAY

Year	Uses	Source
2017	JOSEPH GARCIA	Cole Information Services
2014	MANUEL CARDENAS	Cole Information Services
2009	KATHY FOSTER	Cole Information Services
2004	KATHY FOSTER	Cole Information Services
2002	Foster Katherine L E	R.L. Polk & Co Publishers
	Foster William E	R.L. Polk & Co Publishers
1999	KATHY FOSTER	Cole Information Services

FINDINGS

Year	Uses	Source
1990	No Return	R.L. Polk & Co Publishers
	E DWIGHT WAY Could	R.L. Polk & Co Publishers
1986	Ory Timothy	R.L. Polk & Co Publishers
1980	Ory Timothy	R.L. Polk & Co Publishers

5176 E DWIGHT WAY

Year	Uses	Source
2017	JOSE PLASENCIA	Cole Information Services
2014	JOSE PLASENCIA	Cole Information Services
2009	JOSE PLASENCIA	Cole Information Services
2004	JOSE PLASENCIA	Cole Information Services
2002	Plasencia Jose V 16 A	R.L. Polk & Co Publishers
	Plasencia Angela V	R.L. Polk & Co Publishers
1999	OCCUPANT UNKNOWN	Cole Information Services
	JOSE PLASENCIA	Cole Information Services
1990	Rowe Michl L	R.L. Polk & Co Publishers
1986	Rowe Michi L	R.L. Polk & Co Publishers
1980	Bullock Walt W	R.L. Polk & Co Publishers

5179 E DWIGHT WAY

Year	Uses	Source
2017	DANIELLE BLACK	Cole Information Services
2009	ALONZO ETHERIDGE	Cole Information Services
2004	ALONZO ETHERIDGE	Cole Information Services
2002	Etheridge Alonzo L & Robyn a	R.L. Polk & Co Publishers
1999	ALONZO ETHERIDGE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1996	Zailian J	R.L. Polk & Co Publishers
1994	ZAILIAN, JUNE	Cole Information Services
1990	Zailian June Mrs	R.L. Polk & Co Publishers
1986	Zailian Carl R	R.L. Polk & Co Publishers
1980	Zailian Carl R	R.L. Polk & Co Publishers

5182 E DWIGHT WAY

Year	Uses	Source
2017	TERREL FORTNER	Cole Information Services
2014	TERREL FORTNER	Cole Information Services
2009	TERREL FORTNER	Cole Information Services
2004	TERREL FORTNER	Cole Information Services

FINDINGS

Year	Uses	Source
2002	Fortner Terrell A	R.L. Polk & Co Publishers
1999	TERREL FORTNER	Cole Information Services
1990	Fortoer Terrel	R.L. Polk & Co Publishers
1986	Fortner Steve	R.L. Polk & Co Publishers
1980	Fortner Steve	R.L. Polk & Co Publishers

5185 E DWIGHT WAY

Year	Uses	Source
2014	KERI SHEAFFER	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	LEESTHER DEFEHR	Cole Information Services
2002	Not Verified	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Hawkins P	R.L. Polk & Co Publishers
1980	Lumbert Robt	R.L. Polk & Co Publishers
	Lager Stan	R.L. Polk & Co Publishers

5188 E DWIGHT WAY

Year	Uses	Source
2017	TOMAS HERNANDEZ	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	MAMON & RUTH EVANGELIST	Cole Information Services
	MAMOM THOMAS	Cole Information Services
2002	Thomasrv Mamon L 5 S+ A s	R.L. Polk & Co Publishers
	Thomasrv Lorenzo J	R.L. Polk & Co Publishers
1996	Thomas Mamon	R.L. Polk & Co Publishers
1994	THOMAS, MAMON	Cole Information Services
1990	Gerling W Robt	R.L. Polk & Co Publishers
1986	Brown Glen D	R.L. Polk & Co Publishers
1980	k Rivera Chuck	R.L. Polk & Co Publishers

5191 E DWIGHT WAY

Year	Uses	Source
2009	SHANNON BARKER	Cole Information Services
2004	PAULA BARKER	Cole Information Services
2002	Shanyfelt Eileen G El	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Bowman Irene Mrs	R.L. Polk & Co Publishers

FINDINGS

Year	Uses	Source
1980	Bowman Jeffrey	R.L. Polk & Co Publishers

5192 E DWIGHT WAY

Year	Uses	Source
2014	LATISHA BALBOA	Cole Information Services
2009	YOUA VANG	Cole Information Services
2002	Romero Anthony M 1 A	R.L. Polk & Co Publishers
	Hayes Robert W 51+ A	R.L. Polk & Co Publishers
	Romero Marie G	R.L. Polk & Co Publishers
1999	YOUA VANG	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	RAIGOSA, JOE	Cole Information Services
1990	Beechler Peter	R.L. Polk & Co Publishers
1986	Dutra Ron J	R.L. Polk & Co Publishers
1980	Dutra Ron	R.L. Polk & Co Publishers

5196 E DWIGHT WAY

Year	Uses	Source
2002	Not Verified	R.L. Polk & Co Publishers

5198 E DWIGHT WAY

Year	Uses	Source
2017	EDWARD KUFFEL	Cole Information Services
2014	EDWARD KUFFEL	Cole Information Services
2009	EDWARD KUFFEL	Cole Information Services
2004	EDWARD KUFFEL	Cole Information Services
2002	Kuffel Edward R Jr E	R.L. Polk & Co Publishers
	Kuffel Marjorie L	R.L. Polk & Co Publishers
1999	EDWARD KUFFEL	Cole Information Services
1996	Kuffet Rick 5917 C	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	Vacant	R.L. Polk & Co Publishers

S PEACH AVE

2021 S PEACH AVE

Year	Uses	Source
2009	AGRICULTURAL RESEARCH SERVICE	Cole Information Services
2004	UNITED STATES GOVERNMENT AGRI	Cole Information Services

FINDINGS

Year	Uses	Source
1999	UNITED STATES GOVERNMENT AGRICULTURE DEPARTMENT OF	Cole Information Services
1994	US AGRICULTURAL RESEARCH SVC	Cole Information Services

2108 S PEACH AVE

Year	Uses	Source
2004	ROSE BALES	Cole Information Services
	ROSE BALES	Cole Information Services
2002	Not Verified	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	No Return	R.L. Polk & Co Publishers
1980	Vacant	R.L. Polk & Co Publishers
1970	Bales Donald	R.L. Polk & Co Publisher
1965	BALES DONALD	R.L. Polk & Co Publisher
1962	Bales Donald 0 CL	Pacific Telephone

2123 S PEACH AVE

Year	Uses	Source
1962	Jones Albert 0 CL	Pacific Telephone

2130 S PEACH AVE

Year	Uses	Source
1990	No Return	R.L. Polk & Co Publishers
1986	Vacant	R.L. Polk & Co Publishers

2175 S PEACH AVE

Year	Uses	Source
1980	Rodriquez Sertio	R.L. Polk & Co Publishers
1975	Fisher Charles D	R.L. Polk & Co Publishers
1970	Fisher Charles D	R.L. Polk & Co Publisher
1965	FISHER CHARLES D	R.L. Polk & Co Publisher

2176 S PEACH AVE

Year	Uses	Source
1962	Fishor Chas D CL	Pacific Telephone

2181 S PEACH AVE

Year	Uses	Source
1975	Shepard Industries mach & welding shop	R.L. Polk & Co Publishers
1970	Shepard Industries mach & welding shop	R.L. Polk & Co Publisher

FINDINGS

Year	Uses	Source
1965	SHEPARD INDUSTRIES MACH & WELDING SHOP	R.L. Polk & Co Publisher
1962	Shepard Industries mach &wldg shop CL	Pacific Telephone

South Peach Avenue

2021 South Peach Avenue

Year	Uses	Source
2002	US AGRICULTURAL RESEARCH SVC	R.L. Polk & Co Publishers
	US DEPARTMENT AGRICULTURE LIBR	R.L. Polk & Co Publishers
1996	AGRICULTURAL RESEARCH SVC	R.L. Polk & Co Publishers
1990	US Dept of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept of Agrl Fruit Products Research	R.L. Polk & Co Publishers
	U S D A Ecology & Biological Control	R.L. Polk & Co Publishers
	U S D A Water Management Lab	R.L. Polk & Co Publishers
1986	US Dept Of Agr l Research Serv Adnin Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agri Fruit Products	R.L. Polk & Co Publishers
	Research	R.L. Polk & Co Publishers
	U S D A Horticultural Crops Research Lab	R.L. Polk & Co Publishers
	U S D A Water Management Lab	R.L. Polk & Co Publishers
1980	US Dept Of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agrl Crop Research	R.L. Polk & Co Publishers
1975	US Dept Of Agrl Research Serv Admn Ofc	R.L. Polk & Co Publishers
	U S Dept Of Agrl Crop Research	R.L. Polk & Co Publishers
1970	U S Dept Of Agricultural Research Serv	R.L. Polk & Co Publisher
	U S Dept Of Agr I Crop Research	R.L. Polk & Co Publisher
1965	U S DEPT OF AGRICULTURAL RESEARCH SERV	R.L. Polk & Co Publisher
	U S DEPT OF AGRL CROP	R.L. Polk & Co Publisher
	RESEARCH	R.L. Polk & Co Publisher
1962	US Agr I Marketing Serv CL	Pacific Telephone
	US Agri Riesearch Serv	Pacific Telephone
1958	Agrl Mkt Serv Research	R.L. Polk & Co Publishers
	ACL 5 02 Q	R.L. Polk & Co Publishers
	Tel Serv for Am Contract	R.L. Polk & Co Publishers
	Bridge League c	R.L. Polk & Co Publishers
	Weinberger John H c	R.L. Polk & Co Publishers

FINDINGS

2108 South Peach Avenue

Year	***Uses***	***Source***
2002	Not Verified	R.L. Polk & Co Publishers
1990	No Return	R.L. Polk & Co Publishers
1986	No Return	R.L. Polk & Co Publishers
1980	Vacant	R.L. Polk & Co Publishers
1970	Bales Donald	R.L. Polk & Co Publisher
1965	BALES DONALD	R.L. Polk & Co Publisher
1962	Bales Donald 0 CL	Pacific Telephone

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
2021 S PEACH AVE	2017, 2014, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2021 South Peach Avenue	2017, 2014, 2009, 2004, 1999, 1994, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 S PEACH AVE	2017, 2014, 2009, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 S PEACH AVE	2017, 2014, 2009, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 S PEACH AVE	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2108 South Peach Avenue	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2122 South Peach Avenue	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2123 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2130 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2175 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2176 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2181 S PEACH AVE	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
2221 South Peach Avenue	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5158 E DWIGHT WAY	2017, 2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5158 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5161 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5161 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5164 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5164 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5167 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5167 E DWIGHT WAY	2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
5170 E DWIGHT WAY	2004, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5170 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5173 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5173 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5176 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5176 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5179 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5179 E DWIGHT WAY	2014, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5182 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5182 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5185 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5185 E DWIGHT WAY	2017, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5188 E DWIGHT WAY	2002, 1999, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5188 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5191 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5191 E DWIGHT WAY	2017, 2014, 2002, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5192 E DWIGHT WAY	2017, 2004, 2002, 1996, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5192 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5196 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5198 E DWIGHT WAY	2017, 2014, 2009, 2004, 1999, 1994, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922
5198 E DWIGHT WAY	2002, 1996, 1994, 1990, 1986, 1980, 1975, 1970, 1965, 1962, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

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
2155 South Peach Avenue	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1958, 1952, 1947, 1942, 1937, 1932, 1927, 1922

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
BUILDING INSPECTION DIVISION

SAMUEL M. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
AM. 8-6011

APPLICATION FOR PERMIT
BUILDING

HALL OF RECORDS
ANNEX • ROOM 100
FRESNO, CALIF.

FOR APPLICANT TO FILL IN
TYPE OR PRINT

DESCRIPTION OF WORK

NEW	✓	ALTERATION		ADDITION	
REPAIR		DEMOLITION			

STORIES 1 — SQ. FT. SIZE 2232 — DWELL 36X62 — GAR.

EXT. WALL COVERING Mtl. — NO. OF ROOMS 1 — ROOF COVERING Mtl.

USE OF STRUCTURE Interior Scale

Fruit Processing Bldg.

APTS. — NO. OF UNITS

LEGAL DESCRIPTION — BLOCK — LOT NO.

TRACT SEE ATTACHED-
(PCR NEA 3-17-19/21)

SIZE OF LOT 970X1330 Less 350X426 Acreage — NO. OF BLDGS. NOW ON LOT 18

USE OF EXISTING BLDG. Rand Fruit Bldg — NO. OF FAMILIES 1

ARCHITECT OR ENGINEER Schultz & Butler.

ADDRESS — TEL. NO.

CONSTRUCTION VALUATION $ 4464 00

PLANNING COMMISSION

REQUIRED SETBACK	FRONT MIN.	FRONT MAX.	SIDE INTERIOR	SIDE STREET	REAR
	SEE ATTACHED				

USE

ZONE M-3

PRINCIPAL FRUIT PROCESSING

ACCESSORY

PERMITTED UNDER

APPROVED BY R. G. Tuttle DATE 8-18-60

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.
I AGREE TO COMPLY WITH THE CORRECTIONS LISTED HEREON AND WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION OR USE. I AGREE TO SUBMIT TWO COPIES OF ALL CONSTRUCTION DRAWINGS AND A PLOT PLAN OF THE DEVELOPMENT AREA.

BY Gene T. Ingram
Signature of Permittee or Authorized Agent

FOR APPLICANT TO FILL IN (Type or Print) 1 (2) - 3 - 4 - 5

BUILDING ADDRESS 2155 So. Peach.
LOCALITY Fresno.
NEAREST CROSS ST. 1/2 mi. E. Church & Ft. Butler SP RR
OWNER HENRIETTA RANCHO Prod. Co. DATE
MAIL ADDRESS
CITY Fresno. TEL. NO.
BUILDING CONTRACTOR System Bldrs.
MAIL ADDRESS 1326 S. 4th. st. TEL NO. 68133
CITY Fresno.

BUILDING INSPECTION RECORD

INSPECTION	INSPECTOR'S SIGN.	DATE
FOUNDATION: Location Forms, Setback	[illegible]	8-25-6[illegible]
FRAME: Ext. Lath, Bracing, Bolts		
LATH INSPECTION: (Interior)		
FINAL INSPECTION	[illegible]	9/9/68

OFFICE FILL IN — WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

Plan Check Fee	DATE	NUMBER	AMOUNT
—			

Permit Fee	DATE	NUMBER	AMOUNT
18.00	8-18-60 8-24-60	19705 B	18.00

BUILDING ADDRESS 2155 S. Peach — S-
LOCALITY Fresno — TYPE CONST. IV — OCCUPANCY GROUP G — CODE 5-F
CROSS ST. ½ mi. to Church to Butler SP RR — CASH 20.00 — CHECK
NAME OF PERMITTEE Henrietta Rancho Prod. Co./System Bldrs.

CHECKED BY MTD 8-24-60

VALIDATION WILLIAM J. HESS, CHIEF BUILDING INSPECTOR
By [illegible]

BLOCK @ 2¢ 4464

GARAGE		BUILDING PERMIT	18 00
P. PL.		PLUMBING PERMIT	
BATH		ELEC. PERMIT	
AIR COND.		MISC.	
		TOTAL	18 00

Form 1-3M 4/60 — BARCO INC. P/O 14168

INSPECTOR 3

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY

SAMUEL H. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
AM. 8-6011

APPLICATION FOR PERMIT
PLUMBING

HALL OF RECORDS
ANNEX • ROOM 100
FRESNO, CALIF.

FOR APPLICANT TO FILL IN (Type or Print)

PLUMBING PERMIT FEES

ADDITION ☐ DWELL. ☐ COMM. ☐ IND. ☐

NO.		EACH	FEE
1	PERMIT FEE	$2.00	2.00
	WATER CLOSET	1.00	
	BASIN (LAVATORY)	1.00	
	BATH TUB	1.00	
	SHOWER	1.00	
	KITCHEN SINK	1.00	
	DISHWASHER	1.00	
	AUTO WASH MACHINE	1.00	
	LAUNDRY TRAYS	1.00	
	SLOP SINK	1.00	
	DEVELOPING SINK	1.00	
	FLOOR SINK OR HOPPER	1.00	
	DRINKING FOUNTAIN	1.00	
	FLOOR DRAIN	1.00	
	URINAL	1.00	
	SUMP	1.00	
	WASHRACK SUMP	1.00	
	GREASE TRAP	1.00	
	WATER SOFTENER	1.00	
	REFRIGERATOR DRAIN	1.00	
	ELECTRIC WATER HEATER	1.00	
	WASTE DISPOSAL	1.00	
	WATER SERVICE	1.00	
	SWIMMING POOL (CONTROL PIPING)	1.00	
	SEPARATE COOLING TOWER	1.00	
1	GAS PIPING SYSTEM (1 to 5 outlets)	1.00	1.00
	GAS PIPING SYSTEM (6 or more, each)	.20	
	SPECIAL (SEE ORDINANCE)		

SINGLE FAMILY DWELLING

1. All plumbing work in a (one bathroom new constructed), single family dwelling. (excluding gas appliance tags)	9.00
2. All plumbing work in a (two bathroom new constructed), single family dwelling. (excluding gas appliance tags)	12.00
3. All plumbing work in a three bathroom new constructed single family dwelling. (excluding gas appliance tags)	15.00
4. For each additional bathroom unit over three	3.00

TOTAL FEE

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1 - 2 - 3 - 4 - 5

BUILDING ADDRESS 2155 So. Peach.
LOCALITY Fresno.
NEAREST CROSS ST. Jenson
OWNER Henrietta Rancho Prodcts. DATE 9-26-61
MAIL ADDRESS 2155 So Peach.
CITY Fresno
TEL. NO.
PLUMBING CONTRACTOR Service welding & Boiler Shop.
MAIL ADDRESS
CITY TEL. NO. AM 8-6486

PLUMBING INSPECTION APPROVAL

INSPECTION	INSPECTOR'S SIGNATURE	DATE
GROUND PLUMBING		
TOPOUT PLUMBING		
DRYOUT GAS	[illegible]	10-11-61
HOUSE SEWER		
FINAL PLUMBING	[illegible]	11-3-61

	SIGN.	DATE	MIN.	TIME		SIGN.	DATE	MIN.	TIME	
INSP.					PE					PE
TRIP.					PE					PE
					PE					PE

TOTAL FEE 3.00

DATE	NUMBER	AMOUNT
9-26-61	28702 P	3.00

BUILDING ADDRESS 2155 So PEACH
LOCALITY FRESNO
CROSS ST. JENSEN

TYPE CONST. S.
OCCUPANCY GROUP
CODE
CASH
CHECK

NAME OF PERMITTEE HENRIETTA RANCHO PROD/PERVOS WELDING

CHECKED BY

VALIDATION — WILLIAM J. HESS, CHIEF BUILDING INSPECTOR
By

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS RELATING PLUMBING WORK.

X SIGNATURE OF PERMITTEE

3 - B&M - 12/60 Sabco Inc. P.O. 5439 THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 90 DAYS.

INSPECTOR 3

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
BUILDING INSPECTION DIVISION

SAMUEL N. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
AM. 8-6011

APPLICATION FOR PERMIT
ELECTRIC

HALL OF RECORDS
ANNEX • ROOM 100
FRESNO, CALIF.

FOR APPLICANT TO FILL IN (Type or Print)

BUILDING ADDRESS 2155 So Peach
LOCALITY
NEAREST CROSS ST.
OWNER Henrietta Rancho DATE 11/1/61
MAIL ADDRESS 2155 So. Peach
CITY Fresno TEL. NO.
ELECTRICAL CONTRACTOR Electric Motor Shop
MAIL ADDRESS 253 Fulton St TEL. NO.
CITY Fresno, Calif.

ELECTRICAL PERMIT FEES

ADDITION ☐ DWELL. ☐ COMM. ☐ IND. ☒

NO.		EACH	FEE
	PERMIT FEE	Flat	2.00
	LIGHT OR WIRING OUTLETS	.10	
	FIXTURES, SOCKETS OR LAMPHOLDERS	.10	
	SWITCHES	.10	
	EACH 2' OR FRACTION THEREOF OF MULTI-OUTLET ASSEMBLY	.25	
	RECEPTACLES	.10	
	ELECTRIC DISCHARGE LIGHTING FIXTURE—each tube	.10	
	ELECTRIC RANGES	.50	
	DRYERS	.50	
	HEATERS	.50	
	CUSTOMER OWNED METERS	.50	

ITEMS TO BE RATED BY HP-KW OR KVA

MOTORS		
WELDERS A.C.		
TRANSFORMERS		
MISC. APPLIANCES OR EQUIP. & CHARGES		

FOR THE ABOVE USE TABLE AT RIGHT

SERVICE CONDUCTORS

NO. 8, NO. 6 OR NO. 5 WIRE	.50	
NO. 4, NO. 3, NO. 2 OR NO. 1 WIRE	.75	
NO. 1/0, NO. 2/0 OR NO. 3/0 WIRE	1.25	
NO. 4/0 WIRE SERVICE	1.75	
250,000 C. M. WIRE SERVICE	2.25	
300,000 C. M. OR MORE (See Code for Fee)		

SIGNS & MISC. FEES

FOR EACH INCANDESCENT ELECTRIC SIGN OR OUTLINE LIGHTING, LUMINOUS GAS TYPE WITH 1 to 4 TRANSFORMERS	1.00	
LUMINOUS GAS TYPE WITH 5 OR MORE TRANSFORMERS, EACH	.25	
EACH FURNACE OR BELL TRANSFORMER	.10	
Misc. Solenoid Valve @	.10	.50

SINGLE FAMILY DWELLING

AREA OF CONSTRUCTION. 0 to 500 Sq. Ft.	5.00	
" " 500 to 750 " "	7.50	
" " 750 to 1000 " "	10.00	
" " 1000 to 1250 " "	12.50	
" " 1250 to 1500 " "	15.00	
" " 1500 to 1750 " "	17.50	
" " 1750 to 2000 " "	20.00	
" "		
TOTAL FEE		2.50

ELECTRICAL INSPECTION RECORD

INSPECTION	INSPECTOR'S SIGNATURE	DATE
PARTIAL ELECTRICAL		
ROUGH ELECTRICAL		
FINAL ELECTRICAL	[illegible]	11-2-61

OFFICE FILL IN — WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

TOTAL FEE	DATE	NUMBER	AMOUNT
2.50	11-3-61	29456 E	2.50

BUILDING ADDRESS 2155 S. Peach — S-
LOCALITY — TYPE CONST. — OCCUPANCY GROUP — CODE
CROSS ST. — CASH — CHECK

NAME OF PERMITTEE Electric Motor Shop

CHECKED BY [illegible] VALIDATION — WILLIAM J. HESS, CHIEF BUILDING INSPECTOR By

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING ELECTRICAL WORK.

X SIGNATURE OF PERMITTEE E. A. Boche

INSPECTOR 3

Form 3 8/58 - 3M 72270

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

BUILDING INSPECTION DIVISION

SAMUEL M. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
AM. 8-6011

APPLICATION FOR PERMIT 2

ELECTRIC

HALL OF RECORDS
ANNEX • ROOM 100
FRESNO, CALIF.

FOR APPLICANT TO FILL IN (Type or Print)

BUILDING ADDRESS 2155 So. Peach
LOCALITY Fresno
NEAREST CROSS ST. Butler
OWNER Henrietta Ranchos DATE 11/17/61
MAIL ADDRESS 2155 So Peach Ave
CITY Fresno TEL NO
ELECTRICAL CONTRACTOR Electric Motor Shop
MAIL ADDRESS 252 Fulton St TEL NO AD 2-1154
CITY Fresno

ELECTRICAL PERMIT FEES

ADDITION ☐ DWELL ☐ COMM. ☐ IND. ☒

NO.		EACH	FEE
	PERMIT FEE	5.00	5.00
	LIGHT OR WIRING OUTLETS	.10	
	FIXTURES, SOCKETS OR LAMPHOLDERS	.10	
	SWITCHES	.10	
	EACH 2' OR FRACTION THEREOF OF MULTI-OUTLET ASSEMBLY	.25	
	RECEPTACLES	.10	
	ELECTRIC DISCHARGE LIGHTING FIXTURE—each tube	.10	
	ELECTRIC RANGES	.50	
	DRYERS	.50	
	HEATERS	.50	
	CUSTOMER OWNED METERS	.50	
	ITEMS TO BE RATED BY HP-KW OR KVA		
	MOTORS		
	WELDERS A.C.		
	TRANSFORMERS		
	MISC. APPLIANCES OR EQUIP. & CHARGES		
	FOR THE ABOVE USE TABLE AT RIGHT		
	SERVICE CONDUCTORS		
	NO. 8, NO. 6 OR NO. 5 WIRE	.50	
	NO. 4, NO. 3, NO. 2 OR NO. 1 WIRE	.75	
	NO. 1/0, NO. 2/0 OR NO. 3/0 WIRE	1.25	
	NO. 4/0 WIRE SERVICE	1.75	
	250,000 C. M. WIRE SERVICE	2.25	
	300,000 C. M. OR MORE (See Code for Fee)		
	SIGNS & MISC. FEES		
	FOR EACH INCANDESCENT ELECTRIC SIGN OR OUTLINE LIGHTING, LUMINOUS GAS TYPE WITH 1 to 4 TRANSFORMERS	1.00	
	LUMINOUS GAS TYPE WITH 5 OR MORE TRANSFORMERS, EACH	.25	
	EACH FURNACE OR BELL TRANSFORMER	.10	
	SINGLE FAMILY DWELLING		
	AREA OF CONSTRUCTION. 0 to 500 Sq. Ft.	5.00	
	" " 500 to 750 " "	7.50	
	" " 750 to 1000 " "	10.00	
	" " 1000 to 1250 " "	12.50	
	" " 1250 to 1500 " "	15.00	
	" " 1500 to 1750 " "	17.50	
	" " 1750 to 2000 " "	20.00	
	" "		
	TOTAL FEE	8.50	

ELECTRICAL INSPECTION RECORD

ELECTRICAL

INSPECTION	INSPECTOR'S SIGNATURE	DATE
PARTIAL ELECTRICAL		
ROUGH ELECTRICAL		2-3-62
FINAL ELECTRICAL	Completed	2-15-62 8-28-62

OFFICE FILL IN — WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

TOTAL FEE	DATE	NUMBER	AMOUNT
8.50	11-21-61	29816 E	8.50

BUILDING ADDRESS 2155 So. Peach — $ -

LOCALITY Fresno — TYPE CONST. — OCCUPANCY GROUP — CODE

CROSS ST. Butler — CASH — CHECK

NAME OF PERMITTEE Henrietta Rancho/Electric Motor Shop

CHECKED BY — VALIDATION — WILLIAM J. HESS, CHIEF BUILDING INSPECTOR By

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING ELECTRICAL WORK.

X SIGNATURE OF PERMITTEE E. A. Beale

INSPECTOR 3

Form 3 4/59 - 3M 72870

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY

SAMUEL M. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
CL. 5-9711

APPLICATION FOR PERMIT
PLUMBING

4499
E. KINGS CANYON ROAD
FRESNO, CALIFORNIA

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1-2-3-4-5

BUILDING ADDRESS 2155 South Peach
LOCALITY
NEAREST CROSS ST. Kingsburg Road
OWNER Henrietta Rancho DATE Aug 27
MAIL ADDRESS 2155 South Peach
CITY TEL NO.
PLUMBING CONTRACTOR Argentine Plumbing
MAIL ADDRESS 319 W. Dakota TEL NO. [illegible]
CITY

PLUMBING PERMIT FEES

ADDITION ☒ DWELL. ☑ COMM. ☐ IND. ☐

NO.		EACH	FEE
1	PERMIT FEE	$2.00	2.00
	WATER CLOSET	1.00	
	BASIN (LAVATORY)	1.00	
	BATH TUB	1.00	
	SHOWER	1.00	
	KITCHEN SINK	1.00	
	DISHWASHER	1.00	
	AUTO WASH MACHINE	1.00	
	LAUNDRY TRAYS	1.00	
	SLOP SINK	1.00	
	DEVELOPING SINK	1.00	
	FLOOR SINK OR HOPPER	1.00	
	DRINKING FOUNTAIN	1.00	
	FLOOR DRAIN	1.00	
	URINAL	1.00	
	SUMP 12027	1.00	
	WASHRACK SUMP	1.00	
	GREASE TRAP	1.00	
	WATER SOFTENER	1.00	
	REFRIGERATOR DRAIN	1.00	
	ELECTRIC WATER HEATER	1.00	
	WASTE DISPOSAL	1.00	
	WATER SERVICE	1.00	
	SWIMMING POOL (CONTROL PIPING)	1.00	
	SEPARATE COOLING TOWER	1.00	
1	GAS PIPING SYSTEM (1 to 5 outlets)	1.00	1.00
	GAS PIPING SYSTEM (6 or more, each)	.20	
	SPECIAL (SEE ORDINANCE)		

SINGLE FAMILY DWELLING

1.	All plumbing work in a (one bathroom new constructed), single family dwelling. (excluding gas appliance tags)	8.00
2.	All plumbing work in a (two bathroom new constructed), single family dwelling. (excluding gas appliance tags)	12.00
3.	All plumbing work in a three bathroom new constructed single family dwelling. (excluding gas appliance tags)	[illegible]
4.	For each additional bathroom unit over three.	3.00
	TOTAL FEE	3.00

PLUMBING INSPECTION APPROVAL

INSPECTION	INSPECTOR'S SIGNATURE	DATE
GROUND PLUMBING		
TOPOUT PLUMBING		
DRYOUT GAS		
HOUSE SEWER		
FINAL PLUMBING		8-30-62

	SIGN.	DATE	Min.	TIME		SIGN.	DATE	Min.	TIME	
INSP.					PE					PE
TRIP.					PE					PE
					PE					PE

TOTAL FEE 3.00

DATE	NUMBER	AMOUNT
8-27-62	35333	3.00

BUILDING ADDRESS 2155 So Peach
LOCALITY Fresno
CROSS ST. Kings Canyon Rd
NAME OF PERMITTEE Henrietta Rancho/Argentine Plumb

TYPE CONST. | OCCUPANCY GROUP | CODE
CASH
CHECK ✓

8-27-62 CHECKED BY M. Boggs

VALIDATION By

WILLIAM J. HESS, CHIEF BUILDING INSPECTOR

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS RELATING PLUMBING WORK.

X SIGNATURE OF PERMITTEE Joe A. Argentine

USE OF STRUCTURE 1 Gas for Water Heater Hook up

Form 2 - B&M - 6/61 HARCO INC. P.O. 11560 THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 90 DAYS.

INSPECTOR

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY

SAMUEL M. BLACK
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
CL 5-9711

APPLICATION FOR PERMIT
ELECTRICAL

4499
E. KINGS CANYON ROAD
FRESNO, CALIFORNIA

FOR APPLICANT TO FILL IN (Type or Print)

ADDITION ☐ DWELL ☐ COMM. ☐ IND. ☐

NO.		FEE	FEE
	PERMIT FEE	$2.00	2.00
	LIGHT OR WIRING OUTLETS	.10	
	FIXTURES, SOCKETS OR LAMPHOLDERS	.10	
	SWITCHES	.10	
	EACH 2' OR FRACTION THEREOF OF MULTI-OUTLET ASSEMBLY	.25	
	RECEPTACLES	.10	
	ELECTRIC DISCHARGE LIGHTING FIXTURE—each tube	.10	
	ELECTRIC RANGES	.50	
	DRYERS / HEATERS	ea .50	
	CUSTOMER OWNED METERS	.50	

ITEMS TO BE RATED BY HP-KW OR KVA

	MOTORS		
	WELDERS A.C.		
	TRANSFORMERS—misc. charges		

FOR THE ABOVE USE TABLE AT RIGHT →

SERVICE CONDUCTORS

	NO. 8, NO. 6 OR NO. 5 WIRE	.50	
	NO. 4, NO. 3, NO. 2 OR NO. 1 WIRE	.75	1.25
	NO. 1/0, NO. 2/0 OR NO. 3/0 WIRE	1.25	
	NO. 4/0 WIRE SERVICE	1.75	
	250,000 C. M. WIRE SERVICE	2.25	
	300,000 C. M. OR MORE (See Code for Fee)		

SIGNS & MISC. FEES

	FOR EACH INCANDESCENT ELECTRIC SIGN OR OUTLINE LIGHTING, LUMINOUS GAS TYPE WITH 1 to 4 TRANSFORMERS	1.00	
	LUMINOUS GAS TYPE WITH 5 OR MORE TRANSFORMERS, EACH	.25	
	EACH FURNACE OR BELL TRANSFORMER	.10	

SINGLE FAMILY DWELLING

	AREA OF CONSTRUCTION, 0 to 500 Sq. Ft.	5.00	
	" " 500 to 750 " "	7.50	
	" " 750 to 1000 " "	10.00	
	" " 1000 to 1250 " "	12.50	
	" " 1250 to 1500 " "	15.00	
	" " 1500 to 1750 " "	17.50	
	" " 1750 to 2000 " "	20.00	

MULTIPLE UNITS

	TOTAL AREA 0-750 EACH UNIT	5.00	
	" " 750-1250 " "	7.50	
	" " OVER 1250 " "	10.00	
	TOTAL FEE		3.25

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1-2-3-4-5

BUILDING ADDRESS 2155 So. PEACH AVE
LOCALITY
NEAREST CROSS ST. Butler
OWNER HENRIETTA RANCH DATE 9/25/63
MAIL ADDRESS 2155 So. Peach Ave
CITY Fresno TEL. NO.
ELECTRICAL CONTRACTOR ELECTRIC MOTOR SHOP
MAIL ADDRESS 251 Fulton St TEL. NO. AD 2-1152
CITY Fresno

ELECTRICAL INSPECTION APPROVAL

INSPECTION		INSPECTOR'S SIGN.	DATE
CONDUIT			
ROUGH ELEC.	WIRING		
	MAIN PANEL		
FINAL ELEC.			9-25-63

	SIGN.	DATE	Min.	TIME		SIGN.	DATE	Min.	TIME	
INSP.					PE					PE
TRIP.					PE					PE
					PE					PE

TOTAL FEE	DATE	NUMBER	AMOUNT
3.25	9-25-63	95883	Cash 3.25

BUILDING ADDRESS S-
LOCALITY
CROSS ST.
NAME OF PERMITTEE

TYPE CONST. V | OCCUPANCY GROUP I | CODE U

CASH
CHECK

VALIDATION WILLIAM J. HESS, CHIEF BUILDING INSPECTOR

CHECKED BY
By

USE OF STRUCTURE
Photo Equipment Co. Expansion and SFD on Prop.

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING ELECTRICAL WORK.

X SIGNATURE OF PERMITTEE G A Bocle

Form 5 - 7/5M - 4/61 UARCO INC. P.O. 3160 THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 90 DAYS.

INSPECTOR

1. Location 2155 S. Peach Ave

2. Lot Size: Width _____ ft. Depth _____ ft. _____ Acres

3. Application for: New Sewage System _____ Addition to Old System ✓ Replace System _____

4. Building to be served by proposed system:

Residence ✓ No. Bedrooms 2 Garbage Grinder no

Other _____

SUBMIT GENERAL PLAN IN DUPLICATE WITH THE PERMIT APPLICATION

5. Water Supply:

a. For premises: Community _____ Private Well ✓

Distance to nearest well over 100' ft. Private Well _____ Community _____

6. Sketch plot plan of proposed construction on reverse side.

SMITH AND YEAROUT, INC.

7. Who will install system? _____

I hereby state that the information above and on the reverse side is correct and true to the best of my knowledge and belief. I understand that the permit must be obtained before any construction on the building is started and that an inspection of the system is required before backfilling.

Date of Application 7-25-64 Signature A J Stefanich

Date Permit Approved 7-27-64 By James C Gill

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS TO BE COMPLETED BY SANITARIAN

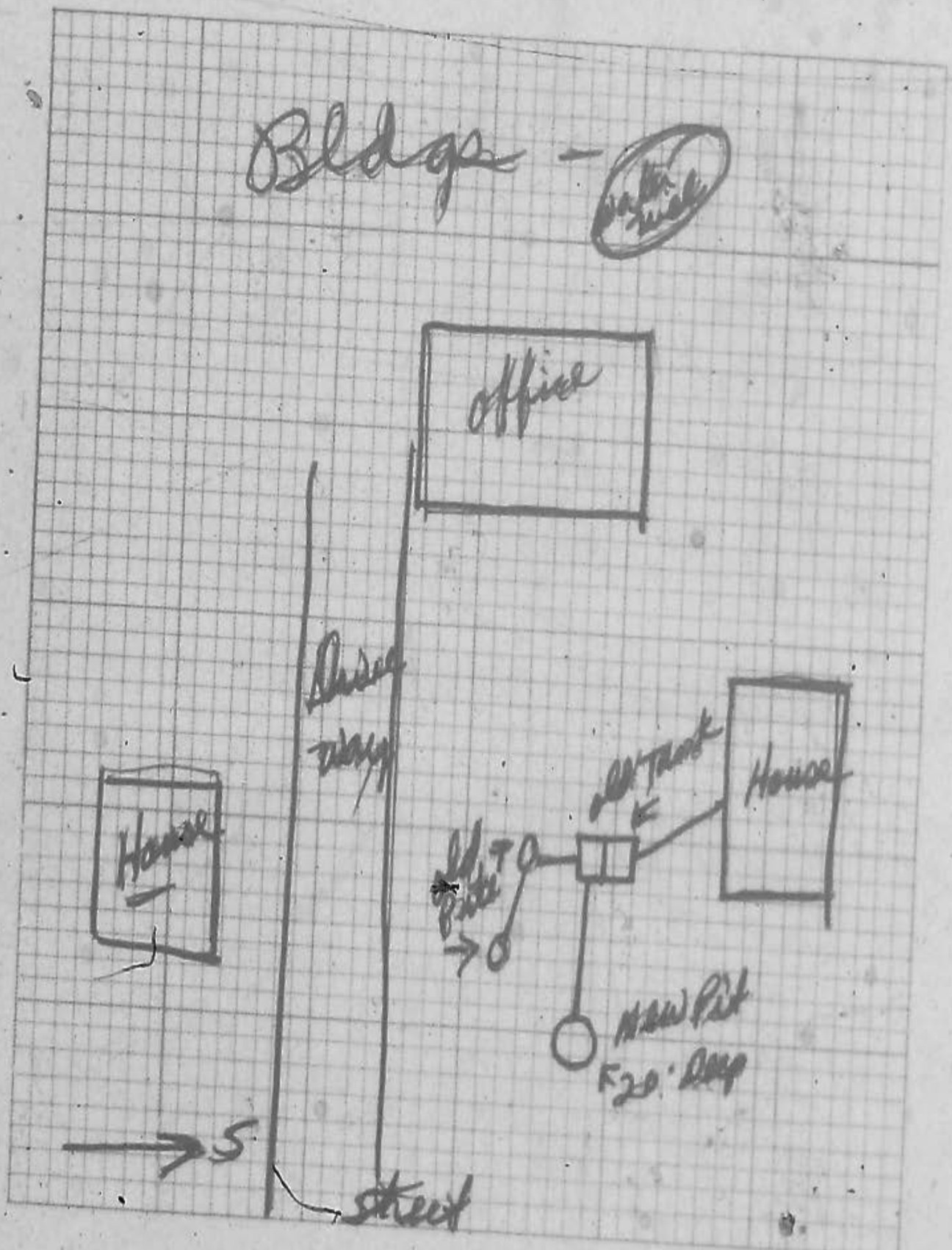
Septic Tank Capacity _____ gallons Census Tract No. 14

Seepage Pits No. 1 Leach Field _____ sq. ft. Permit No. _____

REMARKS: 20' LB

7-31-64

MD 8-20 (3-63)


Office
House
House
Alley
Street
S

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

CLINTON D. BERRY, DIRECTOR OF PUBLIC WORKS — DIVISION OF BUILDING AND SAFETY — WILLIAM J. HESS, CHIEF BUILDING INSPECTOR

TELEPHONE 251-4811 EXT. 630

APPLICATION FOR PERMIT

4499 E. KINGS CANYON ROAD FRESNO, CALIF. 93702

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1 - 2 - 3 - 4 - 5

BUILDING ADDRESS 2155 So. Peach Ave

LOCALITY East Sidnet Ave CROSS ST. California

OWNER Henrietta Rancho Products Co 4/30-70

MAIL ADDRESS PO Box 2023

CITY Fresno Cal 93718. TEL. NO. 2550401

BUILDING CONTRACTOR MODESTO BLDG CO 2:30 646 CARO

PLUMBING

ELECTRICAL

MECHANICAL

Warehouse

Legal Desc. BLOCK		LOT NO.	C. TRACT

TRACT Note SPR #1139

SIZE OF LOT 30 ACRES — NO. OF BLDGS. NOW ON LOT 17

USE OF EXISTING BLDG. Fruit Juice Plant — NO. OF FAMILIES

ARCHITECT OR ENGINEER A.E. SHEPARD (MECHANICAL)

ADDRESS 2181 S. PEACH — TEL NO. 255-5122

SEWER CONNECTION APPROVAL — ENCROACHMENT APPROVAL

PLANNING DEPARTMENT

REQUIRED SETBACK	FRONT MIN.	FRONT MAX.	SIDE INTERIOR	SIDE STREET	REAR
	Note SPR #1139				

ZONE M-3

CERTIFICATE OF OCCUPANCY

APPROVED BY — DATE 5-4-70 — APPROVED ☐ PENDING ☒

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

PLUMBING

NO.		EACH	FEE
	PERMIT FEE	$2.00	2.00
	WATER CLOSET	1.75	
	BASIN (LAVATORY)	1.75	
	BATH TUB	1.75	
	SHOWER	1.75	
	KITCHEN SINK	1.75	
	DISHWASHER	1.75	
	LAUNDRY TRAYS	1.75	
	FLOOR DRAIN	1.75	
	URINAL	1.75	
	WASTE DISPOSAL	1.75	
	CONVERSION LPG to NAT. GAS	10.00	
	HOUSE SEWER	5.00	
	WATER PIPING and/or SERVICE	1.50	
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	2.00	
	GAS PIPING SYSTEM (6 or more, each)	.40	
	GAS APPLIANCE	2.00	
	SPECIAL (SEE ORDINANCE)		

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater, in a one-bathroom newly constructed, single family dwelling, (excluding all other gas appliance tags)	$18.00	
2. All plumbing work, including water heater, in a two-bathroom newly constructed, single family dwelling, (excluding all other gas appliance tags)	18.00	
3. All plumbing work, including water heater, in a newly constructed, single family dwelling of three bathrooms, (excluding all other gas appliance tags)	21.00	
4. For each additional bathroom over three $1.75 per bathroom fixture.		
TOTAL FEE	$	

ELECTRICAL

NO.		EACH	FEE
	PERMIT FEE	$2.00	2.00
	RECEPTACLES Switches Light Outlets		
	FIXTURES		
	TOTAL (of two lines above)		
FIRST 10 OR PORTION		2.00	
REMAINDER	# 10 ea.		
	ELECTRIC RANGES	DISHWASHER	.75
	DRYERS HEATER	DISPOSAL	.75
	0–½ HP .50	OVER 5–15 HP	1.75
	OVER ½ 2 HP .75	OVER 15–50 HP	2.00
	OVER 2 5 HP. 1.25	WELDERS	.75
	MOTORS		

SERVICE CONDUCTORS &/or SUB-PANELS

	NO. 8 OR NO. 6 WIRE	1.00
	NO. 4, NO. 2, OR NO. 1 WIRE	2.00
	NO. 1/0, 2/0, 3/0, OR 4/0 WIRE	3.00
	250,000 CM to 350,000 CM WIRE	4.00
	OVER 350,000 CM WIRE	6.00

SINGLE FAMILY DWELLING

	AREA OF CONSTRUCTION 0 to 750 Sq. Ft.	9.50
	" " 751 to 1000 " "	12.50
	" " 1001 to 1500 " "	17.00
	" " 1501 to 2000 " "	22.50
	" " 2001 to 2500 " "	28.00
	" " 2501 to 3000 " "	33.00
TOTAL FEE	$	

5-12-70 21821 BA 58.00

5-4-70 21537 PC 29.00

HEATING AND COMFORT COOLING

NO.		EACH	FEE
	PERMIT FEE	$2.00	2.00
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	3.00	
	GAS APPLIANCE	2.00	
	VENTILATION DUCT GRAVITY	2.00	
	Mechanical Ins. Hood		
	Under 4,000 CFM-3.00, Over 4,000 CFM-5.00		

REFRIGERATION COOLING UNITS

	2 TONS to 7 TONS	4.00
	OVER 7 TONS to 14 TONS	7.00
	Gas Absorption System to 100,000 BTU	4.00
	" " 100,001 to 175,000 BTU	7.00

SINGLE FAMILY DWELLING

	0 to 750 SQ. FT.	6.00
	751 " 1500 " "	7.00
	1501 " 2500 " "	10.00
	2501 " 3000 " "	11.00
TOTAL FEE	$	

WILLIAM J. HESS CHIEF BUILDING INSPECTOR

CHECKED BY _____ VALIDATED BY _____ ACCT. # _____ CASH ☐ CHECK ☒

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT, AND THAT THE LICENSE, WHERE INDICATED, IS IN FULL FORCE AND EFFECT.

TYPE CONTRACTOR BLDG. ☐ ELEC. ☐ PLUMB. ☐ MECH. ☐

CLASSIFICATION _____ LICENSE NO. _____ FIRM NAME _____ DATE _____

BY _____

TYPE CONST. V-N — OCCUPANCY GROUP F-2 — CODE 4-F

BLDG.	GARAGE	03	18000
	F.P.		
	BATH		
	AIR COND.		
	TOTAL		

PLAN CHECK	21	00
BUILDING PERMIT	58	00
PLUMBING PERMIT		
ELEC. PERMIT		
MISC.		
TOTAL	87	00

BM BAY [illegible] 12-69

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 90 DAYS

INSPECTION COPY

South 12' Section OK, Alkire 5-21-70 am
MIDDLE 20 floor section OK for Concrete Gettman 5-21-70 pm

INSPECTION RECORD

BUILDING

INSPECTION	INSPECTOR'S SIGN	DATE	INSPECTOR'S SIGN	DATE	CN	NR	OTHER
FOUNDATION location forms setback	McGuinness	5/20/70	JH Kochler	5-20-70	✓		
FOUNDATION GARAGE			Okura	5-22-70		✓	
FLOOR GIRDERS & JOISTS							
PORCH & PATIO PIERS							
FRAME bracing bolts	McGuinness	9-21-70					
LATH lexterior							
FIREPLACE							
SHOWER WALLS OVER TUB							
SHOWER PAN & WALLS							
UNDER FLOOR AREA-CLEAN							
FINAL INSPECTION	McGuinness	9/21-70					

ELECTRICAL

INSPECTION		INSPECTOR'S SIGN	DATE	INSPECTOR'S SIGN	DATE	CN	NR	OTHER
CONDUIT								
ROUGH ELEC.	WIRING							
	MAIN PANEL							
TEMPORARY METER								
FINAL ELEC.								

PLUMBING

INSPECTION	INSPECTOR'S SIGN	DATE	INSPECTOR'S SIGN	DATE	CN	NR	
GROUND PLUMBING							
VENTS							
WATER PIPE							
GAS PIPE							
TUB ACCESS							
DRYOUT GAS							
SEPTIC TANK FORMS							
SEPTIC TANK/HOUSE SEWER							
SEPTIC T. & PITS BACKFILLED							
TEMPORARY METER							
FINAL INSPECTION							

MECH. and MISC

INSPECTION	INSPECTOR'S SIGN	DATE	INSPECTOR'S SIGN	DATE	CN	NR	OTHER
DUCTS UNDERFLOOR							
DUCTS OVERHEAD							
FRESH AIR							
FURNACE gas comb'n							
REFRIGERATION UNIT							
FINAL INSPECTION							

OCCUPANCY BOND

AMOUNT	INSPECTOR'S SIGN.	DATE	APPROVED BY	DATE	REFUND BY	DATE

FOR APPLICANT TO FILL IN
TYPE OR PRINT

BUILDING

COUNTY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY

CLINTON D. BERRY
DIRECTOR OF PUBLIC WORKS

WILLIAM J. HESS
CHIEF BUILDING INSPECTOR

TELEPHONE
251-4811
EXT. 630

APPLICATION FOR
PERMIT

4499
E. KINGS CANYON ROAD
FRESNO, CALIF. 93702

NEW | ALTERATION | DRAINAGE FEE

STORIES | BUILDING SIZE SQ. FT. 16000 | PATIO | GARAGE

USE OF STRUCTURE: WAREHOUSE

#731

Legal Desc. BLOCK | LOT NO. | C. TRACT

TRACT Part of Sect-17-T14SR21E

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1 - 2 - 3 - 4 - 5

BUILDING ADDRESS 2155 So. Peach Ave
LOCALITY Fresno NEAREST CROSS E. California
OWNER Henrietta Rancho Products Co TEL 2/17-71
MAIL ADDRESS PO Box 2023
CITY Fresno Cal 93718 TEL NO 2552401
BUILDING CONTRACTOR Modern Bldg Co. Chico PHONE
PLUMBING
ELECTRICAL
MECHANICAL

SIZE OF LOT 30 Acres | NO. OF BLDGS. NOW ON LOT 21
USE OF EXISTING BLDG. Juice Plant | NO. OF FAMILIES
ARCHITECT OR ENGINEER A.E. Shepard
ADDRESS 2181 So Peach | TEL. NO. 2555122
SEWER CONNECTION APPROVAL | ENCROACHMENT APPROVAL

PLANNING DEPARTMENT

	FRONT		SIDE		REAR
REQUIRED SETBACK	MIN.	MAX.	INTERIOR	STREET	

ZONE
CERTIFICATE OF OCCUPANCY
APPROVED ☐ PENDING ☐
APPROVED BY | DATE

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

Fence 4' Chain Link to Rear Property Line
DBM-RP 25704 75 35

PLUMBING

NO.		EACH	FEE
	PERMIT FEE	$2.00	2.00
	WATER CLOSET	1.75	
	BASIN (LAVATORY)	1.75	
	BATH TUB	1.75	
	SHOWER	1.75	
	KITCHEN SINK	1.75	
	DISHWASHER	1.75	
	LAUNDRY TRAYS	1.75	
	FLOOR DRAIN	1.75	
	URINAL	1.75	
	WASTE DISPOSAL	1.75	
	CONVERSION LPG to NAT GAS	10.00	
	HOUSE SEWER	5.00	
	WATER PIPING and/or SERVICE	1.50	
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	2.00	
	GAS PIPING SYSTEM (6 or more, each)	.40	
	GAS APPLIANCE	2.00	
	SPECIAL (SEE ORDINANCE)		

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater, in a one-bathroom newly constructed, single family dwelling (excluding all other gas appliances)	$14.00	
2. All plumbing work, including water heater, in a two-bathroom newly constructed, single family dwelling (excluding all other gas appliances)	18.00	
3. All plumbing work, including water heater, in a newly constructed, single family dwelling of three bathrooms (excluding all other gas appliances)	21.00	
4. For each additional bathroom over three $1.75 per bathroom fixture.		
TOTAL FEE	$	

ELECTRICAL

NO.		EACH	FEE
	PERMIT FEE	$2.00	2.00
	RECEPTACLES Switches Light Outlets		
	FIXTURES		
	TOTAL (of two lines above)		
FIRST 10 OR PORTION		2.00	
REMAINDER	@ .10 ea		
	ELECTRIC RANGES	DISHWASHER	.75
	DRYERS	HEATER	DISPOSAL .75
	0-½ HP .50	OVER 5-15 HP 1.75	
	OVER ½ 2 HP .75	OVER 15-30 HP 3.00	
	OVER 2 5 HP 1.25	WELDERS .75	
	MOTORS		

SERVICE CONDUCTORS &/or SUB-PANELS

NO. 8 OR NO. 6 WIRE	1.00
NO. 4, NO. 2, OR NO. 1 WIRE	2.00
NO. 1/0, 2/0, 3/0, OR 4/0 WIRE	3.00
250,000 CM to 350,000 CM WIRE	4.00
OVER 350,000 CM WIRE	6.00

SINGLE FAMILY DWELLING

AREA OF CONSTRUCTION 0 to 750 Sq. Ft.	9.50
" " 751 to 1000 " "	12.50
" " 1001 to 1500 " "	17.00
" " 1501 to 2000 " "	23.50
" " 2001 to 2500 " "	28.00
" " 2501 to 3000 " "	33.00
TOTAL FEE	$

HEATING AND COMFORT [illegible]

NO.			FEE
	PERMIT FEE	$2.00	2.00
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	2.00	
	GAS APPLIANCE	2.00	
	VENTILATION DUCT GRAVITY	2.00	
	Mechanical Inc. Hood		
	Under 4,000 CFM 2.00; Over 4,000 CFM 5.00		

REFRIGERATION COOLING UNITS

	2 TONS to 7 TONS	4.00
	OVER 7 TONS to 15 TONS	7.00
	Gas Absorption System to 150,000 BTU	4.00
	" " 150,001 to 299,000 BTU	7.00

SINGLE FAMILY DWELLING

0 to 750 SQ. FT.	6.00
751 " 1500 "	7.00
1501 " 2500 "	10.00
2501 " 3000 "	11.00
TOTAL FEE	$

TYPE CONST.	OCCUPANCY GROUP	CODE

WILLIAM J. HESS CHIEF BUILDING INSPECTOR

CHECKED BY _____ VALIDATED BY _____ ACCT. # _____ CASH ☐ CHECK ☐

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT, AND THAT THE LICENSE, WHERE INDICATED, IS IN FULL FORCE AND EFFECT.
TYPE CONTRACTOR: BLDG. ☒ ELEC. ☐ PLUMB. ☐ MECH. ☐
CLASSIFICATIONS | LICENSE NO. | FIRM NAME | DATE
X BY G. E. Shepard - Owner

BLDG.			PLAN CHECK	
GARAGE			BUILDING PERMIT	101 50
P.B.			PLUMBING PERMIT	
BATH			ELEC. PERMIT	
AIR COND.			MISC.	
TOTAL	33320		TOTAL	

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 90 DAYS.

BM RAY 7384 11-70

ACCOUNTING COPY

DECLARATION EXEMPTION FOR OWNER-BUILDER

Reference From
State Business and Professional Code

7031.5 Statement of contractor as to license required as part of local permit requirement. Each county or city which requires the issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition or repair of any building or structure shall also require that each applicant for such a permit file as a condition precedent to the issuance of a permit a statement which he has prepared and signed stating that the applicant is licensed under the provisions of this chapter, giving the number of the license and stating that it is in full force and effect, or that the applicant is exempt from the provisions of this chapter, the basis for the alleged exemption.

I HEREBY CERTIFY THAT I AM EXEMPT FROM THE CONTRACTORS LICENSE LAW OF THE STATE OF CALIFORNIA UNDER SECTION 7044 OF THE BUS. AND PROF. CODE BECAUSE OF ONE OR MORE OF THE FOLLOWING CONDITIONS:

1....I am the owner of the property and the structure is being built for the occupancy of the owner and will not be offered for sale within one year. (Sec. 7044)

2....The building does not contain more than three (3) dwelling units, one of which will be occupied by me as the owner. (Sec. 7044)

3....As the owner, I am contracting with a licensed contractor to construct the project (Sec. 7050)

4....Aggregate total of the contracts is not more that $100 for labor, material and all other items of work. (Sec. 7048)

5....I am a licensed architect, engineer, or structural pest control operator operating within the scope of my license. (Sec. 7053)

6....I am furnishing materials and supplies without fabrication as exempted by Sec. 7052 of the State Contractors License Laws. (Sec. 7052)

7....I am an employee with wages as my sole compensation. (Sec. 7053)

8....The property is in the ownership of the Federal Government. (Sec. 7047)

Signed (Owner) _____

Signed (Agent for Owner) _____

Owner's Address _____

Telephone No.: _____ Date _____

DECLARATION OF CONSTRUCTION LENDER

REFERENCE FROM
THE CODE OF CIVIL PROCEDURE

Section 1193 requires an applicant for a building permit to execute on the application or space provided the name, title designation (if any) and address of the construction lender, or if there is not a construction lender financing the proposed construction, that fact must be noted in the space provided.

Name of Construction Lender _____

Street Designation _____

Address _____

☐ There is no construction lender

Applicants Signature _____ Date _____

FOR APPLICANT TO FILL IN
TYPE OR PRINT

BUILDING

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS — DIVISION OF BUILDING AND SAF.

CLINTON D. BEERY
DIRECTOR OF PUBLIC WORKS

ROBERT E. HUBER
CHIEF BUILDING INSPECTOR

TELEPHONE
488-3886

APPLICATION FOR
PERMIT

4499 E. KINGS CANYON ROAD
FRESNO, CALIF. 93702

FOR APPLICANT TO FILL IN Type or Print ZONE 1 (2) 3 - 4 - 5

NEW		ALTERATION		DRAINAGE FEE
STORIES	BUILDING SIZE SQ FT		PATIO	
			GAR./CP	

USE OF STRUCTURE: Elec For Motors

BUILDING ADDRESS: 2155 S. PEACH

LOCALITY — NEAREST CROSS ST: BUTLER

OWNER: HENRIETTA RANCHO TRS — DATE: 9-17-73

MAIL ADDRESS: 2155 S PEACH

CITY: FRESNO, CALIF — TEL NO

LEGAL DESC BLOCK		LOT NO		C TRACT

TRACT

CONTRACTOR	LICENSE NO	PHONE
BLDG		
PLUMBING		
ELECT John Hester	283518	4/16 877?
MECH		

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

DATE	PERMIT NUMBER	CLASS	AMOUNT

FIRST PRINT LINE

SIZE OF LOT	NO. OF BLDGS NOW ON LOT
USE OF EXISTING BLDG	NO. OF FAMILIES
ARCHITECT OR ENGINEER	
ADDRESS	TEL NO
SEWER CONNECTION APPROVAL	ENCROACHMENT APPROVAL

PLANNING DEPARTMENT

REQUIRED SETBACK	FRONT MIN	FRONT MAX	SIDE INTERIOR	SIDE STREET	REAR

APPROVED BY — DATE

CERTIFICATE OF OCCUPANCY — APPROVED ☐ PENDING ☐

ZONE

9-17-73 88755 E 7.00

PLUMBING

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	WATER CLOSET	1.75	
	BASIN LAVATORY	1.75	
	BATH TUB	1.75	
	SHOWER	1.75	
	KITCHEN SINK	1.75	
	DISHWASHER	1.75	
	LAUNDRY TRAYS	1.75	
	FLOOR DRAIN	1.75	
	URINAL	1.75	
	WASTE DISPOSAL	1.75	
	CONVERSION LPG to NAT GAS	10.00	
	HOUSE SEWER	5.00	
	WATER PIPING and/or SERVICE	1.50	
	EA GAS PIPING SYSTEM 1 to 5 outlets	2.00	
	GAS PIPING SYSTEM 6 or more outlets	40	
	GAS APPLIANCE	2.50	
	SPECIAL (SEE ORDINANCE)		
	ROOF DRAIN 1 TO 4	2.00	
	EACH ADDITIONAL DRAIN	.50	

SPECIAL INSPECTION FEE 8.00 PER HOUR

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater, in a one bathroom newly constructed, single family dwelling (excluding all other gas appliance tags)	15.00	
2. All plumbing work, including water heater, in a two bathroom newly constructed, single family dwelling, (excluding all other gas appliance tags)	16.00	
3. All plumbing work, including water heater in a newly constructed, single family dwelling of three bathrooms (excluding all other gas appliance tags)	22.00	
4. For each additional bathroom over three $1.75 per bathroom fixture		

TOTAL FEE $

ELECTRICAL

NO		EACH	FEE
1	PERMIT FEE	3.00	3.00
	RECEPTACLES Switches Light Outlets		
	FIXTURES		
	TOTAL of two lines above		
	FIRST 10 OR PORTION	2.50	
	REMAINDER @ 10 ea		
	ELECTRIC RANGES — DISHWASHER	1.00	
	DRYERS — HEATER — DISPOSAL	1.00	
	0 - ½ HP 30 — OVER 5 - 15 HP	2.00	
	OVER ½ - 1 HP 1.00 — OVER 15 - 50 HP	4.00	
	OVER 2 - 5 HP 1.50 — WELDERS	1.00	
	MOTORS		4.00

SPECIAL INSPECTION FEE 8.00 PER HOUR

SERVICE CONDUCTORS & SUB-PANELS

	NO. 8 OR NO. 6 WIRE	.50
	NO. 4, NO. 2, OR NO. 1 WIRE	2.50
	NO. 1/0, 2/0, 3/0, OR 4/0 WIRE	3.50
	250 MCM to 350,000 CM WIRE	5.00
	OVER 350,000 CM WIRE	7.50

SINGLE FAMILY DWELLING

	Area of Construction 0 to 750 Sq. Ft.	11.00
	751 to 1000	16.00
	1001 to 1500	20.00
	1501 to 2000	26.00
	2001 to 2500	32.00
	2501 to 3000	36.00

TOTAL FEE $ 7.00

MECHANICAL

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	EA GAS PIPING SYSTEM 1 to 5 outlets	2.00	
	GAS APPLIANCE	2.50	
	VENTILATION DUCT GRAVITY	2.00	
	SERVING COMM KITCHEN	3.00	
	Mechanical Inc. Hood Under 4,000 CFM 3.00 Over 4,000 CFM 5.00 SERVING COMM KITCHEN UNDER 4 MCFM $4.00 OVER 4 MCFM $6.00		
	DUCT SYSTEM NON RESIDENT		
	SINGLE STORY 0 4M SQ FT	5.00	
	OVER 4M SQ FT	10.00	
	MULTI STORY PER FLOOR	4.00	
	EVAP COOLER TAG	2.00	

SPECIAL INSPECTION FEE 8.00 PER HOUR

REFRIGERATION COOLING UNITS

	2 TONS to 7 TONS	4.00
	OVER 7 TONS to 14 TONS	7.00
	Gas Absorption System to 120,000 BTU	6.00
	120,001 to 270,000 BTU	7.00
	LESS THAN 2 TONS TAG	2.00

SINGLE FAMILY DWELLING

0 to 750 SQ FT	6.00
751 - 1500	7.00
1501 - 2500	10.00
2501 - 3000	11.00

TOTAL FEE $

ROBERT E. HUBER CHIEF BUILDING INSPECTOR

CHECKED BY _____ VALIDATED BY _____ ACCT # _____ CASH ☐ CHECK ☐

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT. THE LICENSE WHERE INDICATED IS IN FULL FORCE AND VALID.

CONTRACTOR

TYPE CONTRACTOR BLDG ☐ ELEC ☒ PLUMB ☐ MECH ☐

CLASSIFICATION C-10 LICENSE NO 283518 DATE 9-17-73

FIRM

	UNIT	TOTAL
BLDG		
GARAGE		
P. PL.		
PATIO		

PLAN & CHECK FEE

BUILDING PERMIT

PLUMBING PERMIT

ELEC 7.00

OCCUPANCY

ZONE

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN/NB
Footings - Reinforcing Inspected						
Foundation Garage						
Piers Grade & Size						
Post Drill Footings Inspected						
Frame Sheathing Bldg.						
Lath Inspected						
Fireplace Flashing						
Fireplace Hood						
Shower Walls over Tubs						
Smoke Det. & Wiring						
Under Floor Rough Clear						
Bond Beam & Steel						
(1)						
(2)						
(3)						
FINAL INSPECTION						

ELECTRICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN/NB
Conduit For Gas						
Rough Wiring						
Elec. Main Panel						
Temporary Meter						
Temporary Power Pole						
Ground Electrode						
Ground Wiring						
FINAL INSPECTION						

Lee Pennant
15-3464

PLUMBING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN/NB
Ground Plumbing Inst.						
Water Pipe						
Vents						
Gas Pipe						
Tub Access						
Drain Pipe						
Septic Tank						
Hoyle Sewer						
Septic & Pits Backfilled						
Temporary Meter						
FINAL INSPECTION						

MECHANICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN/NB
Ducts Underfloor						
Duct Overhead						
Floor Air						
Furnace and Vents						
Refrigeration Line						
Evaporative Cooler						
FINAL INSPECTION						

	AMOUNT	INSPECTOR'S SIGN	DATE	REFUNDED BY	DATE	RECEIVED BY	DATE
OCCUPANCY BOND							

FOR APPLICANT TO FILL IN TYPE OR PRINT

BUILDING

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS — DIVISION OF BUILDING AND SAFE

CLINTON D. BERRY, DIRECTOR OF PUBLIC WORKS

JOHN I. WEAVER, CHIEF BUILDING INSPECTOR

24 HR. INSPECTION ANSWERING SERVICE 488-3895

APPLICATION FOR **PERMIT**

4499 E. KINGS CANYON ROAD FRESNO, CALIF. 93702 488-3886

NEW	ALTERATION	DRAINAGE FEE
STORIES	BUILDING SIZE SQ. FT.	PATIO / GAR/CP

PERMIT FOR: DEMOLATION PERMIT 4600 Q'

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1 (2) 3 - 4 - 5

BUILDING ADDRESS 2155 S. PEACH

NEAREST TOWN FILESNO NEAREST CROSS ST CALIF.

OWNER HENRIETTA FARMS DATE 5/3/76

MAIL ADDRESS BOX 2023

CITY FRESNO TEL NO 255-0401

LEGAL DESC BLOCK		LOT NO		C TRACT

TRACT

CONTRACTOR	LICENSE NO.	PHONE
BLDG		
PLUMBING		
ELECT		
MECH		

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

DATE	PERMIT NUMBER	CLASS	AMOUNT

FIRST PRINT LINE

SIZE OF LOT	NO OF BLDGS NOW ON LOT
USE OF EXISTING BLDG	NO OF FAMILIES
ARCHITECT OR ENGINEER	
ADDRESS	TEL NO
SEWER CONNECTION APPROVAL	ENCROACHMENT APPROVAL

5:13:76 153462 3 Mic 2000

PLANNING DEPARTMENT

REQUIRED SETBACK	FRONT MIN.	FRONT MAX.	SIDE INTERIOR	SIDE STREET	REAR

APPROVED BY DATE

CERTIFICATE OF OCCUPANCY APPROVED ☐ PENDING ☐

ZONE SPECIAL PERMITS

PLUMBING

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	WATER CLOSET	1.75	
	BASIN LAVATORY	1.75	
	BATH TUB	1.75	
	SHOWER	1.75	
	KITCHEN SINK	1.75	
	DISHWASHER	1.75	
	LAUNDRY TRAYS	1.75	
	FLOOR DRAIN	1.75	
	URINAL	1.75	
	WASTE DISPOSAL	1.75	
	CONVERSION LPG to NAT GAS	10.00	
	HOUSE SEWER	5.00	
	WATER PIPING and/or SERVICE	1.50	
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	2.00	
	GAS PIPING SYSTEM (6 or more, each)	.40	
	GAS APPLIANCE	2.50	
	SPECIAL (SEE ORDINANCE)		
	ROOF DRAIN 4 TO 4	2.00	
	EACH ADDITIONAL DRAIN	.50	

SPECIAL INSPECTION FEE 8.00 PER HOUR

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater, in a one bathroom newly constructed, single family dwelling, (excluding all other gas appliance tags)	15.00	
2. All plumbing work, including water heater, in a two bathroom newly constructed, single family dwelling, (excluding all other gas appliance tags)	19.00	
3. All plumbing work, including water heater in a newly constructed, single family dwelling of three bathrooms, (excluding all other gas appliance tags)	22.00	
4. For each additional bathroom over three $1.75 per bathroom fixture		

TOTAL FEE $

ELECTRICAL

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	RECEPTACLES Switches Light Outlets		
	FIXTURES		
	TOTAL (of two lines above)		
	FIRST 10 OR PORTION	2.50	
	REMAINDER @ 10 ea		
	ELECTRIC RANGES / DISHWASHER	1.00	
	DRYERS / HEATER / DISPOSAL	1.00	
	0 - ½ HP 50 / OVER 5 - 15 HP	2.00	
	OVER ½ - 2 HP 1.00 / OVER 15 - 50 HP	4.00	
	OVER 2 - 5 HP 1.50 / WELDERS	1.00	
	MOTORS		

SPECIAL INSPECTION FEE 8.00 PER HOUR

SERVICE CONDUCTORS & or SUB-PANELS

	NO. 8 OR NO. 6 WIRE	1.50
	NO. 4, NO. 2 OR NO. 1 WIRE	2.50
	NO. 1/0, 2/0, 3/0, OR 4/0 WIRE	3.50
	250,000 CM to 350,000 CM WIRE	5.00
	OVER 350,000 CM WIRE	7.50

SINGLE FAMILY DWELLING

	Area of Construction 0 to 750 Sq. Ft	11.00
	751 to 1000	15.00
	1001 to 1500	20.00
	1501 to 2000	26.00
	2001 to 2500	32.00
	2501 to 3000	38.00

TOTAL FEE $

MECHANICAL

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	EA. GAS PIPING SYSTEM (1 to 5 outlets)	2.00	
	GAS APPLIANCE	2.50	
	VENTILATION DUCT GRAVITY	2.00	
	SERVING COMM. KITCHEN	3.00	
	Mechanical Inc. Hood Under 4,000 CFM 3.00 Over 4,000 CFM 5.00 SERVING COMM. KITCHEN UNDER 4 M.C.F.M. $4.00 OVER 4 M.C.F.M. $6.00		
	DUCT SYSTEM NON RESIDENT		
	SINGLE STORY, 0 4M SQ. FT	3.00	
	OVER 4M SQ. FT	10.00	
	MULTI STORY PER FLOOR	4.00	
	EVAP. COOLER	2.00	

SPECIAL INSPECTION FEE 8.00 PER HOUR

REFRIGERATION COOLING UNITS

	LESS THAN 7 TONS	4.00
	OVER 7 TONS to 14 TONS	7.00
	Gas Absorption System to 130,000 BTU	4.00
	130,001 to 375,000 BTU	7.00
	WINDOW UNIT	2.00

SINGLE FAMILY DWELLING

	0 to 750 SQ. FT	6.00
	751 - 1500	7.00
	1501 - 2500	10.00
	2501 - 3000	11.00

TOTAL FEE $

JOHN I. WEAVER, CHIEF BUILDING INSPECTOR

CHECKED BY _____ VALIDATED BY _____ RECT # _____ CASH ☐ CHECK ☑

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT. THE LICENSE, WHERE INDICATED, IS IN FULL FORCE AND VALID.

SIGN BELOW AND COMPLETE REVERSE

X _____ Date 5-13-76

TYPE CONST | OCCUPANCY GROUP | CODE

	UNIT	TOTAL
BLDG		
GARAGE		
P. PU		
BATH		

PLAN ☒
CHECK ☒
BUILDING PERMIT
PLUMBING PERMIT
ELEC PERMIT
MECH

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	ON	NR
Footings, Isolated Footings & Piers							
Foundation Garage							
Floor Grades & Slab							
Rough Grading Completed							
Sewer Trench & Pipe							
Slab Reinforcing							
Fireplace Chimney							
Fireplace Hood							
Kitchen Hood and Duct							
Chimney Flashing							
Floor Framing & Sheathing							
Roof Sheathing							
(1)							
(2)							
FINAL INSPECTION							

Calculated 2-2-781

ELECTRICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	ON	NR
Ground Rod & Bond Wire							
Service							
Underground Service Conduit & Wires							
Temporary Power Pole							
Rough Electrical							
Ground Clamp							
FINAL INSPECTION							

PLUMBING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	ON	NR
Soil & Waste							
Vent Pipe							
Gas Pipe							
Tub & Shower							
Water Closet							
Septic Tank							
House Sewer							
Water Service & Pipe Installed							
Temporary Meter							
FINAL INSPECTION							

MECHANICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	ON	NR
Ducts Underfloor							
Duct Overhead							
Boiler & Furnace							
Warm Air Heating Unit							
Refrigeration Unit							
Exhaust Fans & Ducts							
FINAL INSPECTION							

	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUNDED BY	DATE
OCCUPANCY BOND							

BUILDING

NEW ☒ ALTERATION ☐ DRAINAGE FEE K 7.25

STORIES | BUILDING SIZE SQ FT 7200 | PATIO | GAR/CP

PERMIT FOR STRAN STEEL BUILDING LEACH ROOM OPERATION

CLINTON D BEERY
DIRECTOR OF PUBLIC WORKS

24 HR. INSPECTION
ANSWERING SERVICE
488-3895

APPLICATION FOR
PERMIT

[illegible] WE
BUILDING INC.
4499 E. KINGS CANYON ROAD
FRESNO, CALIF. 93702
488-3886

FOR APPLICANT TO FILL IN (Type or Print) ZONE 1 - 2 - 3 - 4 , 5

BUILDING ADDRESS 2155 S. PEACH

NEAREST TOWN FRESNO NEAREST CROSS ST E. [illegible]

OWNER HENRIETTA RANCHO PRODUCTS DATE 5-12-76

MAIL ADDRESS BOX 2023

CITY FRESNO TEL NO 255-0401

LEGAL DESC BLOCK		LOT NO.		C. TRACT
TRACT 3 - DEEDS ENCLOSED				

CONTRACTOR	LICENSE NO.	PHONE
BLDG. EVERD A. MC CAIN	14203	712-466-2311
PLUMBING NONE		
ELECT R.M. [illegible] CAGLIA	246015	252-1155
MECH. NONE.		

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

DATE	PERMIT NUMBER	CLASS	AMOUNT
5-13-76	153463	Lic—PC	143.65
	153464	Lic—B	221.00
	153465	Lic—Mic	4.66
	153466	Lic—	369.31
	153467	Lic—	369.31

FIRST PRINT LINE

SIZE OF LOT 1.6 AC | NO. OF BLDGS NOW ON LOT 8

USE OF EXISTING BLDG LEACH | NO. OF FAMILIES

ARCHITECT OR ENGINEER

ADDRESS | TEL NO

SEWER CONNECTION APPROVAL | ENCROACHMENT APPROVAL

PLANNING DEPARTMENT

REQUIRED SETBACK	FRONT MIN / MAX	SIDE STREET	REAR
	PER	SPR	336

APPROVED BY [signature] DATE 5-13-76

CERTIFICATE OF OCCUPANCY APPROVED / PENDING

ZONE M-3 SPECIAL PERMITS 5-21-76

PLUMBING

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	WATER CLOSET	1.75	
	BASIN LAVATORY	1.75	
	BATH TUB	1.75	
	SHOWER	1.75	
	KITCHEN SINK	1.75	
	DISHWASHER	1.75	
	LAUNDRY TRAYS	1.75	
	FLOOR DRAIN	1.75	
	URINAL	1.75	
	WASTE DISPOSAL	1.75	
	CONVERSION LPG to NAT GAS	10.00	
	HOUSE SEWER	5.00	
	WATER PIPING and/or SERVICE	1.50	
	EA. GAS PIPING SYSTEM 1 to 5 outlets	2.00	
	GAS PIPING SYSTEM 6 or more, each	.40	
	GAS APPLIANCE	2.50	
	SPECIAL (SEE ORDINANCE)		
	ROOF DRAIN 1 TO 4	2.00	
	EACH ADDITIONAL DRAIN	.50	

SPECIAL INSPECTION FEE 8.00 PER HOUR

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater, in a one-bathroom newly constructed single family dwelling; excluding all other gas appliance tags	15.00	
2. All plumbing work, including water heater, in a two-bathroom newly constructed single family dwelling; excluding all other gas appliance tags	9.00	
3. All plumbing work, including water heater in a newly constructed single family dwelling of three bathrooms; excluding all other gas appliance tags	22.00	
4. For each additional bathroom over three $1.75 per bathroom fixture		

TOTAL FEE $

ELECTRICAL

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	RECEPTACLES Switches Light Outlets		
	FIXTURES		
	TOTAL (of two lines above)		
	FIRST 10 OR PORTION	2.50	
	REMAINDER @ .10 ea.		
	ELECTRIC RANGES / DISHWASHER	1.00	
	DRYERS / HEATER / DISPOSAL	1.00	
	0 – ½ HP 50	OVER 5 – 15 HP	2.00
	OVER ½ 2 HP 1.00	OVER 15 – 50HP	4.00
	OVER 2 5 HP 1.50	WELDERS	1.00
	MOTORS		

SPECIAL INSPECTION FEE 8.00 PER HOUR

SERVICE CONDUCTORS & or SUB-PANELS

NO. 8 OR NO. 6 WIRE	1.50	
NO. 4, NO. 2, OR NO. 1 WIRE	2.50	
NO. 1/0, 2/0, 3/0, OR 4/0 WIRE	3.50	
250,000 CM to 350,000 CM WIRE	5.00	
OVER 350,000 CM WIRE	7.50	

SINGLE FAMILY DWELLING

Area of Construction 0 to 750 Sq. Ft	11.00	
751 to 1000	15.00	
1001 to 1500	20.00	
1501 to 2000	26.00	
2001 to 2500	32.00	
2501 to 3000	38.00	

TOTAL FEE $

MECHANICAL

NO		EACH	FEE
	PERMIT FEE	3.00	3.00
	EA. GAS PIPING SYSTEM 1 to 5 outlets	2.00	
	GAS APPLIANCE	2.50	
	VENTILATION DUCT GRAVITY	2.00	
	SERVING COMM. KITCHEN	3.00	
	Mechanical Inc. Hood Under 4,000 CFM 3.00 Over 4,000 CFM 5.00 SERVING COMM. KITCHEN UNDER 4 M C F M $4.00 OVER 4 M C F M $6.00		
	DUCT SYSTEM NON RESIDENT		
	SINGLE STORY, 0-4M SQ FT	3.00	
	" " OVER 4M SQ FT	10.00	
	MULTI-STORY PER FLOOR	4.00	
	EVAP. COOLER	2.00	

SPECIAL INSPECTION FEE 8.00 PER HOUR

REFRIGERATION COOLING UNITS

LESS THAN 7 TONS	4.00	
OVER 7 TONS to 14 TONS	7.00	
Gas Absorption System to 130,000 BTU	4.00	
130,001 to 370,000 BTU	7.00	
WINDOW UNIT	2.00	

SINGLE FAMILY DWELLING

0 to 750 SQ. FT	6.00	
751 - 1500	7.00	
1501 - 2500	10.00	
2501 - 3000	11.00	

TOTAL FEE $

JOHN I. WEAVER CHIEF BUILDING INSPECTOR

CHECKED BY [signature] VALIDATED BY [signature] ACCT. # _____ CASH ☐ CHECK ☑

TYPE CONST. IV OCCUPANCY GROUP F2 CODE 5-B

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT. THE LICENSE, WHERE INDICATED, IS IN FULL FORCE AND VALID.

	UNIT	TOTAL		
BLDG	925	666.00	PLAN CHECK	463.25
GARAGE			BUILDING PERMIT	221.00
F. PL			PLUMBING PERMIT	
BATH			ELEC PERMIT	
AIR COND			MECH. PERMIT	
			SMI	4.66

SIGN BELOW AND COMPLETE REVERSE

X [signature] Date 5-12-76

X Owner PLANT MGR

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN	NR
Foundation, location forms setback	Schwartz North end	6/9/76		Schwartz	8/31/76	✓	
Footings Cut size	Schwartz	6/16/76	West side footing				
Floor Girders & Joists	Schwartz	6/22/76	East side footing				
Post Steel, location forms setback	Lee Scott	6-28-76	South side ftg	J. J. Finke	9-17-76	✓	
Frame, bracing bolts							
Lath, exterior							
Fireplace damper							
Fireplace roof							
Shower Walls over Tub							
Shower Pan & Walls							
Under Floor Area Clear							
Bor's Room & Flue							
Attic							
Attic							
Attic							
FINAL INSPECTION	Mc Henry	2-7-78	C/N				

ELECTRICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN	NR
Conduit Pipe Only							
Rough: Wiring							
Elec: Main Panel				Calvelly	2-2-78	✓	
Temporary Meter							
Temporary Power Pole							
Ground Electrode							
Ground Clamp							
FINAL INSPECTION	Mc Henry	2-7-78	C/N				

PLUMBING INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN	NR
Sewer & Plumbing Roll							
Water Pipe							
Vents							
Gas Pipe							
Tub Heater							
Shower Stall							
Septic Tank							
House Sewer							
Drain, T. & Pipe Beneath Slab							
Temporary Meter							
FINAL INSPECTION							

MECHANICAL INSPECTION	INSPECTOR'S SIGN	DATE	REMARKS	INSPECTOR'S SIGN	DATE	CN	NR
Ducts Under Floor							
Duct Overhead							
Fresh Air							
Furnace, Location and Clr.							
Refrigeration Unit							
Evaporative Cooler							
FINAL INSPECTION							

	AMOUNT		DATE		
OCCUPANCY BOND					

pull 8/17/76

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
4499 E. KINGS CANYON RD.
FRESNO, CALIFORNIA 93702
488-3886

APPLICATION FOR **PERMIT**

24 HR. INSPECTION ANSWERING SERVICE 488-3895

CLINTON D. BEERY
DIRECTOR OF PUBLIC WORKS

JOHN I. WEAVER
CHIEF BUILDING INSPECTOR

FOR APPLICANT TO FILL IN, TYPE OR PRINT

FOR APPLICANT TO FILL IN (Type or Print)

ZONE 1 (2) 3 4 5 6

BUILDING ADDRESS 2155 S. Peach

NEAREST TOWN Fresno NEAREST CROSS ST Butler

OWNER Henrich Ranches DATE 1/27/78

MAIL ADDRESS same

CITY Fresno ZIP PHONE

DESIGNER R. Hoekstra ADDRESS PHONE

LENDER ADDRESS BRANCH

CONTRACTOR	ADDRESS	PHONE
BLDG C & B Const.	5665 E. Weldon 291-9181	
PLUMBING		
ELEC.		
MECH.		
SEPTIC		

BUILDING

NEW		ALTERATION		PATIO
STORIES	BUILDING SIZE SQ. FT.			GARAGE/CP

JOB ADDRESS

PROJECT: Tower Cone Foundation

LEGAL DESC

See Exist Permits

PLUMBING

NO.	(SUP. FEE 1.50)		EACH	FEE
	PERMIT FEE		3.00	3.00
	WATER CLOSET	URINAL	3.00	
	KITCHEN SINK	DISPOSAL	3.00	
	DISHWASHER	BATH TUB	3.00	
	LAUNDRY TRAYS	SHOWER	3.00	
	DRINKING FONT.	LAV	3.00	
	FLOOR DRAIN		3.00	
	BACKFLOW DEVICE		3.50	
	HOUSE SEWER		9.00	
	CONVERSION LPG to NAT. GAS		18.00	
	EA GAS PIPING SYSTEM	1 - 5 outlets	3.50	
	Ea. Additional Outlet	6 or more	75 ea	
	GAS APPLIANCE		4.50	
	ROOF DRAIN EA 1.00 MIN. 3.50			

WATER PIPING and/or SERVICE	2.50	

SINGLE FAMILY DWELLING

1. All plumbing work, including water heater in a one bathroom newly constructed, single family dwelling (excluding all other gas appliance tags)	27.50	
2. All plumbing work, including water heater, in a two bathroom newly constructed, single family dwelling: (excluding all other gas appliance tags)	35.00	
3. All plumbing work, including water heater, in a newly constructed, single family dwelling of three bathrooms: (excluding all other gas appliance tags)	40.00	
For each additional bathroom over three $3.00 per bathroom fixture		
Min. $9.00	TOTAL FEE	$

ELECTRICAL

NO.	(SUP. FEE $1.50)		EACH	FEE
	PERMIT FEE		3.00	3.00
	RECEPTACLES Switches lights Outlets FIRST 10 OR PORTION		4.00	
	REMAINDER	@ 15 ea.		
	ELEC RANGES	DISHWASHER	1.50	
	DRYERS	HEATER DISP	1.50	
	220 OUTLET	1.50		
	WELDER		1.50	
	0-½ HP	.75		
	OVER 5-15 HP		3.00	
	OVER ½-2 HP	1.50		
	OVER 15-50 HP		6.50	
	OVER 2-5 HP	2.50		
	OVER 50 HP		17.00	

SERVICE & OR SUB-PANELS

0-99 AMPS	2.50	
100-125 AMPS	4.00	
126-200 AMPS	6.00	
201-399 AMPS	8.00	
OVER 350,000 CM WIRE	12.00	

SINGLE FAMILY DWELLING

Area of Construction 0 to 750 Sq. Ft.	18.50	
Area of Construction 751 to 1000 Sq. Ft.	25.00	
Area of Construction 1001 to 1500 Sq. Ft.	34.00	
Area of Construction 1501 to 2000 Sq. Ft.	44.00	
Area of Construction 2001 to 2500 Sq. Ft.	54.00	
Area of Construction 2101 to 3000 Sq. Ft.	64.00	
EA. ADD 500 Sq. Ft.	2.50	
Min. $5.00	TOTAL FEE	$

MECHANICAL

NO.			FEE
	PERMIT FEE	3.00	3.00
	EA GAS PIPING SYSTEM 1-5 outlets	3.50	
	Ea. Additional Outlet 6 or more	.75 ea	
	GAS APPLIANCE	2.50	
	MECH. HOOD		
	DUCT SYSTEM-NON RESIDENT		
	SINGLE STORY, 0-4M SQ. FT.	5.00	
	SNGL STORY OVER 4M SQ. FT.	10.00	
	MULTI story-PER FLOOR	5.00	
	EVAP. COOLER	2.00	

REFRIGERATION COOLING UNITS

LESS THAN 7 TONS	4.00	
OVER 7 TONS to 14 TONS	7.00	
OVER 14 TONS	12.00	

SINGLE FAMILY DWELLING

0 to 750 SQ. FT.	6.00	
751 to 1500 SQ. FT.	7.00	
1501 to 2500 SQ. FT.	10.00	
2501 to 3000 SQ. FT.	11.00	
EA. ADD. 500 SQ. FT.	1.00	
	TOTAL FEE	$

AFFIDAVIT

CALIFORNIA WORKMEN'S COMPENSATION LAW

☐ I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED I SHALL NOT EMPLOY ANY PERSON IN ANY MANNER SO AS TO BECOME SUBJECT TO THE WORKMAN'S COMPENSATION LAW OF CALIFORNIA

☑ I HAVE COMPLIED WITH ALL THE REQUIREMENTS OF WORKMEN'S COMPENSATION LAW OF CALIFORNIA

CALIFORNIA CONTRACTOR LICENSE LAW

☐ I HEREBY CERTIFY THAT I AM EXEMPT FROM THE CONTRACTOR'S LICENSE LAWS OF THE STATE OF CALIFORNIA AS PROVIDED IN CALIFORNIA BUSINESS AND PROFESSION CODE SECTION NUMBERS

☑ THE UNDERSIGNED IS LICENSED BY THE DIRECTOR OF PROFESSIONAL AND VOCATIONAL STANDARDS TO ENGAGE IN THE CONTRACTING BUSINESS IN THE STATE OF CALIFORNIA AND SAID LICENSE IS, AND WILL BE MAINTAINED IN FULL FORCE AND EFFECT DURING THE PERFORMANCE OF WORK AUTHORIZED BY THIS PERMIT

CONTRACTORS LICENSE # 317107 CLASSIFICATION B-1

I DECLARE UNDER PENALTY OF PERJURY THAT THIS APPLICATION AND ALL THE FOREGOING IS TRUE AND CORRECT

SIGNED

A.P.N.

SIZE OF LOT	USE OF BLDGS NOW ON LOT
SEWER	DRAINAGE FEE

ZONING

REQUIRED SETBACK	FRONT MIN.	FRONT MAX.	SIDE INTERIOR	SIDE STREET	REAR
		Interior			

APPROVED BY DR E DATE 1/30/78

ZONING ACCEPTANCE APPROVED ☑ PENDING ☐

ZONE DISTRICT M-3

SPECIAL PERMITS

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

PC
B

18549 1/30/78

TYPE CONST	OCCUPANCY GROUP	CODE
UNIT	TOTAL	PLAN CHECK
BLDG Estimate 1,000		13 —
GARAGE		20 —

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Foundation: location forms setback	Young	2-3-78	
Foundation: Garage			
Floor Girders & Joists			
Insulation			
Frame, blocking bolts			
Roof Sheathing			
Roof Covering			
Lath (exterior)			
Fireplace: damper			
Fireplace: roof			
Shower Pan & Walls			
Under Floor Area Clean			
Patio and Porch Piers			
Pool Fencing and Gates			
Pool Steel: location forms setback			
Bond Beam & Shell			
FINAL INSPECTION	Mr Henry	2-1-78	

INSPECTOR'S TRIPS	DATE	CN

ELECTRICAL INSPECTION		INSPECTOR'S APPROVAL	DATE	REMARKS
Conduit: Pvc	Galv.			
Rough	Wiring			
Elec.	Main Panel			
Temporary Meter				
Temporary Power Pole				
Ground Electrode				
Ground Clamp				
Pool Steel Bonding				
Pool Equipment Bonding				

INSPECTOR'S TRIPS	DATE	CN	NR

PLUMBING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ground Plumbing: soil			
Water Pipe			
Vents			
Gas Pipe: Int./Ext.			
Tub Access			
Grease Gas			
Septic Tank			
House Sewer			
Septic Tank & Pits Backfilled			
Temporary Meter			
Water Service			

INSPECTOR'S TRIPS	DATE	CN	NR

MECHANICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ducts Underfloor			
Duct Overhead			
Fresh Air			
Furnace: gas vents	Comb. Air		
Refrigeration Unit			
Evaporative Cooler			

INSPECTOR'S TRIPS	DATE	CN	NR

OCCUPANCY BOND	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUND BY	DATE

REMARKS

2155 S. Beach

PROPERTY DESCRIPTION IN SECTION 17, T. 14 S.R. 21 E. M. D. B. & M. FOR
The Henrietta Rancho Products Company.

Parcel 1

The point of commencement of the following description is the northwest corner of section 17, T. 14 S., R. 21 E. M.D.B.& M, thence running south, along the west line of section 17 a distance of 621.3 feet to a point and thence S. 89° - 13 'E. 174 feet to the point of beginning of this description; thence along the following courses and distances; S. 89° - 13'E. 163 feet; S. 31° - 57' E. 167. 20 feet; S.89°-09'E. 347 feet; N. 0°-11'E. 324.95; N.89°-29'W. 248 feet; N.47°-45'W. 91 feet; N.89°-39'W. 145 feet; N.54°- 21'W. 96 feet; .88°-26'W. 61.43 feet and S.0°-01'E 300.63 feet a little more or less to the point on beginning of this description; containing 4.46 acres a little more or less.

Parcel 2

The point of commencement of the following description is the northwest corner of section 17, T. 14 S., R. 21'E. M.D.B.&M., thence south along the west line of section 17 a distance of 621.3 feet and thence S.89°-13'E. 337.) feet to the point of beginning of this description; thence S.31° - 57' 167.2 feet; thence north, parallel with the west line of section 17, 140.6 feet to a point and thence N. 89° - 13'W. 88.6 feet a little more or less to the point of beginning. Containing 6,228.58 squars feet.

Parcel 3

The point of beginning of the following description is the northwest corner of section 17, T. 14 S., R. 21E. M.D.B.& M.; thence easterly, 1329.5 feet, a little more or less, along the north line of section 17, to the northeast corner of the N.W.¼ of the N. W.¼ of said section; thence S.0°-16'E. along the east line of the N.W.¼ of the N.W.¼ or said section a distance of 970.5 feet a little more or less, to a point; thence N.89°-49'W. 908.32 feet, a little more or less to a point which is 425.9 feet east of the west line of said section 17; thence N0°-02'E. 204.10 feet thence continuing on the following courses and distances; S.89° -09'E. 347 feet; N.0°-11'E. 324.95 feet; N.89°-29'W.. 248 feet; N.47°-45'W. 91 feet; N.89°-39'W. 145 feet; N.54°-21'W. 96 feet; N.88°-26'W. 61.43 feet; S.0°-01'E. 300.63 feet; N.89°-13'W. 174.0 feet to a point on the west line of section 17; thence North, along the west line of said section 621.33 feet to the point of beginning. Containing 22.05 acres a little more or less.

Attach to ck. 4 - Planning

2155 S. PEACH

PROPERTY DESCRIPTION IN SECTION 17, T. 14 S.R. 21 E. M. D. B. & M. FOR
The Henrietta Rancho Products Company.

Parcel 1

The point of commencement of the following description is the northwest corner of section 17, T. 14 S., R. 21 E. M.D.B.& M, thence running south, along the west line of section 17 a distance of 621.3 feet to a point and thence S. 89° - 13 'E. 174 feet to the point of beginning of this description; thence along the following courses and distances; S. 89° - 13'E. 163 feet; S. 31° - 57' E. 167. 20 feet; S.89°-09'E. 347 feet; N. 0°-11'E. 324.95; N.89°-29'W. 248 feet; N.47°-45'W. 91 feet; N.89°-39'W. 145 feet; N.54°- 21'W. 96 feet; .88°-26'W. 61.43 feet and S.0°-01'E 300.63 feet a little more or less to the point on beginning of this description; containing 4.46 acres a little more or less.

Parcel 2

The point of commencement of the following description is the northwest corner of section 17, T. 14 S., R. 21 E. M.D.B.&M., thence south along the west line of section 17 a distance of 621.3 feet and thence S.89°-13'E. 337.) feet to the point of beginning of this description; thence S.31° - 57' 167.2 feet; thence north, parallel with the west line of section 17, 140.6 feet to a point and thence N. 89° - 13'W. 88.6 feet a little more or less to the point of beginning. Containing 16,228.58 square feet.

Parcel 3

The point of beginning of the following description is the northwest corner of section 17, T. 14 S., R. 21E. M.D.B.& M.; thence easterly, 1329.5 feet, a little more or less, along the north line of section 17, to the northeast corner of the N.W.¼ of the N. W.¼ of said section; thence S.0°-16'E. along the east line of the N.W.¼ of the N.W.¼ or said section a distance of 970.5 feet a little more or less, to a point; thence N.89°-49'W. 908.32 feet, a little more or less to a point which is 425.9 feet east of the west line of said section 17; thence N0°-02'E. 204.10 feet thence continuing on the following courses and distances; S.89° -09'E. 347 feet; N.0°-11'E. 324.95 feet; N.89°-29'W. 248 feet; N.47°-45'W. 91 feet; N.89°-39'W. 145 feet; N.54°-21'W. 96 feet; N.88°-26'W. 61.43 feet; S.0°-01'E. 300.63 feet; N.89°-13'W. 174.0 feet to a point on the west line of section 17; thence North, along the west line of said section 621.33 feet to the point of beginning. Containing 22.05 acres a little more or less.

BOOK 3221 PAGE 213

2155 S. PEACH

S. 89° 09' E. 347 feet; thence N. 0° 11' E. 324.95 feet; thence N. 89° 29' W. 248 feet; thence N. 47° 45' W. 91 feet; thence N. 89° 39' W. 145 feet; thence N. 54° 21' W. 96 feet; thence N. 88° 26' W. 61.43 feet; thence S. 0° 01' E. 300.63 feet; thence N. 89° 13' W. 174.0 feet to a point on the west line of said Section 17; thence north, along the west line of said Section 17, a distance of 621.33 feet, to the point of beginning.

WITNESS my hand this 25th day of September, 1952.

53769

AT REQUEST OF
THE FRESNO TITLE CO.
12 MIN. PAST 1 P M

OCT 1 1952
BOOK 3221 PAGE 213
FRESNO COUNTY CALIFORNIA
I. C. FARLEY, COUNTY RECORDER
BY DEPUTY RECORDER

E Pusey Cain

I do declare that I ~~am~~ the wife of E. PUSEY CAIN, the Grantor in the foregoing Grant Deed, and that all of the property described in said Grant Deed is the separate property of said E. Pusey Cain.

Dated: September 25th 1952.

Dorothy M. Cain

STATE OF CALIFORNIA,
County of Fresno } ss.

On this 25th day of September in the year one thousand nine hundred and fifty-two before me, Lucille Miller a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared E. PUSEY CAIN,

known to me to be the person described in, whose name is subscribed to and who executed the within instrument, and acknowledged that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in said County, the day and year in this Certificate first above written.

Lucille Miller
Notary Public in and for said County and State

GENERAL ACKNOWLEDGMENT—Shelburne's Stationery—1931 Mariposa, Fresno, Calif.

BOOK 3221 PAGE 218 2155 S. PEACH

53769
GRANT DEED

E. PUSEY CAIN, in consideration of TEN DOLLARS ($10.00) to him in hand paid, the receipt of which is hereby acknowledged, does hereby grant to HENRIETTA RANCHO PRODUCTS COMPANY, a corporation, all that certain real property situated in the County of Fresno, State of California, described as follows:

That portion of the Northwest Quarter of Section 17, Township 14 South, Range 21 East, M.D.B. & M., described as follows: BEGINNING at the northwest corner of said Section 17; thence South, along the west line of said Section, a distance of 621.3 feet to a point, said point being the northwest corner of the land described in Deed to Mabel C. Pool recorded February 25, 1946, in Book 2356, Page 268, of Official Records; thence S. 89° 13' E., along the north line of said Pool land, a distance of 174 feet as the true point of beginning; thence S. 89° 13' E. 163 feet; thence S. 31° 57' E. 167.2 feet; thence S. 89° 09' E. 347 feet; thence ~~N. 0° 11' E. 324.95 feet; thence~~ N. 89° 29' W. 248 feet; thence N. 47° 45' W. 91 feet; thence N. 89° 39' W. 145 feet; thence N. 54° 21' W. 96 feet; thence N. 88° 26' W. 61.43 feet; thence S. 0° 01' E. 300.63 feet, more or less, to the true point of beginning; and subject to existing rights of way and easements.

TOGETHER with all gas, oil, minerals, and mineral rights, therein and thereto.

TOGETHER with an easement and right of way, for any and all purposes at any and all times, for ingress to and egress from the aforesaid described property on, over, and through the following described property situate, lying and being in the County of Fresno, State of California; to-wit:

That portion of the Northwest Quarter of Section 17, Township 14 South, Range 21 East, M.D.B. & M., described as follows: BEGINNING at the northwest corner of said Section 17; thence easterly, along the north line of said Section, a distance of 1329.5 feet to the northeast corner of the Northwest Quarter of the Northwest Quarter of said Section 17; thence S. 0° 16' E., along the east line of the Northwest Quarter of the Northwest Quarter of said Section 17, a distance of 970.5 feet, to the southeast corner of the land conveyed to E. Pusey Cain by Deed recorded March 20, 1934, in Book 1327, Page 437, of Official Records; thence N. 89° 49' W. 908.32 feet, more or less, to the southeast corner of the land conveyed to Mabel C. Pool by Deed recorded February 25, 1946, in Book 2356, Page 268, of Official Records, said point being 426 feet east of the west line of said Section; thence north, along the east line of said Pool land, a distance of 205.4 feet; thence

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Number 254-670 License Class C21

Contractor Archie Cuppin Date 2-3-81

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professional Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Sec. _____ B.&P.C. for this reason

Owner _____ Date _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab.C.).

Policy No. _____ Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the County of Fresno department of Building & Safety.

Date 2-3-81 Applicant Archie Cuppin

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the work performed is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ.C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.

Archie Cuppin 2-3-81

Signature of Applicant or Agent Date

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
4499 E. KINGS CANYON RD.
FRESNO, CALIFORNIA 93702
453-3886

APPLICATION FOR PERMIT

24 HR. INSPECTION ANSWERING SERVICE
453-3886
JOHN I. WEAVER
CHIEF BUILDING INSPECTOR

JOB ADDRESS

FOR APPLICANT TO FILL IN (Type or Print)

ZONE 1 (2) 3 - 4 - 5 - 6

BUILDING ADDRESS 2155 S. Peach

NEAREST TOWN Fresno NEAREST CROSS ST. California

OWNER Henrietta Cencho c/o Sun Maid

MAIL ADDRESS 13525 S. Bethel

CITY Kingsburg TEL NO. _____

DEMO CONT. Archie Cuppin ST. LIC. 254670 TEL NO. 237-7200

ADDRESS 648 N. Monte

PLUMB. CONT _____ ST. LIC. _____ TEL NO. _____

ADDRESS _____

ELEC. CONT _____ ST. LIC. _____ TEL NO. _____

ADDRESS _____

MECH CONT _____ ST. LIC. _____ TEL NO. _____

ADDRESS _____

ARCH. OR ENGINEER _____ ST. LIC. _____ TEL NO. _____

ADDRESS _____

LEGAL DESC.

A.P.N.

PROJECT Demo permit for 1 story, 17,400 ft warehouse Bldg #4 on plot plan

ZONING

REQUIRED SETBACK	FRONT MIN	FRONT MAX	SIDE INTERIOR	SIDE STREET	REAR

APPROVED BY _____ DATE _____

ZONING ACCEPTANCE APPROVED ☐ PENDING ☐

ZONE DISTRICT AL20 REMARKS

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

NO.	PLUMBING		EACH	FEE
	PERMIT FEE		6.00	6.00
	WATER CLOSET	URINAL	5.00	
	KITCHEN SINK	DISPOSAL	5.00	
	WASH MACH.	BATH TUB	5.00	
	LAVATORY	SHOWER	5.00	
	WATER PIPING and/or SERVICE		5.00	
	EA. LAWN SPRINKLING SYST. FUR S.F.D. WITH BACK FLOW DEVICES		10.00	
	ALL OTHER BK. FLOW. DEV.		5.00	
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	EA. BLDG. SEWER		15.00	
	PRIVATE SEWERAGE DISPOSAL SYSTEM		25.00	

NEW SINGLE FAMILY DWELLING

All plumbing work in a newly constructed single family dwelling including sewer & septic system	one bathroom	40.00
	two bathroom	45.00
	three bathroom	50.00
For each additional bathroom fixture		5.00

Min. $10.00 TOTAL FEE $

NO.	MECHANICAL		EACH	FEE
	PERMIT FEE		6.00	6.00
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	MECH. HOOD			
	DUCT SYSTEM			

REFRIGERATION COOLING UNITS

	LESS THAN 7 TONS	6.00
	OVER 7 TONS to 14 TONS	9.00
	OVER 14 TONS	14.00

NEW SINGLE FAMILY DWELLING

	0 to 750 SQ. FT.	10.00
	751 to 1500 SQ. FT.	15.00
	1501 to 2500 SQ. FT.	20.00
	EA. ADD. 500 SQ. FT.	1.00

Min. $10.00 TOTAL FEE $

NO.	ELECTRICAL		EACH	FEE
	PERMIT FEE		6.00	
	EA. CIRCUIT (REMODEL WORK ONLY)		2.00	
	EA. WIRING OUTLET & OR FIXTURES AT WHICH CURRENT IS USED OR CONTROLLED		.30 EA.	
	ELEC RANGES	DISHWASHER	3.00	
	DRYERS	HEATER / DISP	3.00	
	OUTLET 3.00	WELDER	3.00	
	0-1 HP 2.00	OVER 30-50 HP	11.00	
	OVER 1 TO 5 HP 5.00	OVER 50-100	18.00	
	OVER 5 TO 30 HP 7.00	OVER 100 HP	28.00	
	EA. AG PUMP OR WIND MACH. Min.		20.00	
	EA. TIME CLOCK		2.00	
	EA. ELEC. VALVE		1.00	
	TRANSFORMER			

SERVICE & OR SUB-PANELS

0 TO 200 AMPS	5.00
201 TO 400 AMPS	16.00
401 TO 600 AMPS	25.00
OVER 600 AMPS	50.00

NEW SINGLE FAMILY DWELLING

Area of Construction 0 to 750 Sq. Ft.	25.00
Area of Construction 751 to 1500 Sq. Ft.	30.00
Area of Construction 1501 to 1500 Sq. Ft.	40.00
Area of Construction 1501 to 2000 Sq. Ft.	50.00
Area of Construction 2001 to 2500 Sq. Ft.	60.00
Area of Construction 2501 to 3000 Sq. Ft.	70.00
EA. ADD 500 Sq. Ft.	5.00

Min. $10.00 TOTAL FEE $

TYPE CONST. OCCUPANCY GROUP STORIES

	SQ.FT.		
BUILDING	@		
GARAGE/CP	@		
PATIO	@		
	TOTAL COST (MP. $		

APPROVED BY mch	PLAN CHECK	
	ENERGY SURCHARGE	
	S.M.I.	
	SUB TOTAL	
VALIDATED BY	BUILDING PERMIT	
	PLUMBING PERMIT	
	ELECTRICAL PERMIT	
ACCOUNT #	MECH. PERMIT	
	SUB TOTAL	
	SEWER	
	DRAINAGE	
CASH ☐	Demo permit	20 -
CHECK ☑	TOTAL	

D 20.00 DEMO
1 20.00 TOTL
20.00 CKTD
.00 CACD
C4469 101 2/03/81

10M: 8-80 5-80 THIS PERMIT SHALL EXPIRE

BUILDING ADDRESS _____

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Foundation: location forms setback							
Foundation: Garage							
Floor Girders & Joists							
Insulation							
Frame, bracing bolts							
Roof Sheathing							
Roof Covering							
Lath: (exterior)							
Fireplace: damper							
Fireplace: roof							
Shower Wall Over Tub							
Shower Pan & Walls							
Under Floor Area Clean							
Patio and Porch Piers							
Pool Fencing and Gates							
Pool Steel: location forms setback							
Bond Beam & Steel							
FINAL INSPECTION	D Poole	7/7/81					

ELECTRICAL INSPECTION		INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Conduit: Pvc	Galv.							
Rough Elec.	Wiring							
	Main Panel							
Temporary Meter								
Temporary Power Pole								
Ground Electrode								
Ground Clamp								
Pool Steel Bonding								
Pool Equipment Bonding								
Supplemental Ground								
FINAL INSPECTION								

PLUMBING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Ground Plumbing: soil							
Water Pipe							
Vents							
Gas Pipe							
Tub Access							
Dryer: Gas							
Septic Tank							
House Sewer							
Septic T. & Pits Backfilled							
Temporary Meter							
Water Service							
FINAL INSPECTION							

MECHANICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Ducts Underfloor							
Duct Overhead							
Fresh Air							
Furnace Gas vents	combustion air						
Refrigeration Unit							
Evaporative Cooler							
FINAL INSPECTION							

	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUND BY	DATE
OCCUPANCY BOND							

REMARKS

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Number 254670 License Class C21

Contractor Archie Cuppaia Date 2-3-81

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Sec. _____ B.&P.C. for this reason

Owner _____ Date _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab.C.)

Policy No. _____ Company _____

☐ Certified copy is hereby furnished

☐ Certified copy is filed with the County of Fresno department of Building & Safety.

Date 2-3-81 Applicant Archie Cuppaia

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if work performed is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ.C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.

Archie Cuppaia 2-3-81

Signature of Applicant or Agent Date

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
4499 E. KINGS CANYON RD
FRESNO, CALIFORNIA 93702
453-3986

APPLICATION FOR PERMIT

24 HR. INSPECTION ANSWERING SERVICE
453-3995
JOHN I. WEAVER
CHIEF BUILDING INSPECTOR

JOB ADDRESS

FOR APPLICANT TO FILL IN (Type or Print)

ZONE 1 · 2 · 3 · 4 · 5 · 6

BUILDING ADDRESS 2155 S. Peach

NEAREST TOWN Fresno NEAREST CROSS ST. California

OWNER SUN MAID - HENERITTA RANCH

MAIL ADDRESS 12525 S BETHEL

CITY Kingsburg TEL NO 2

CONT Archie Cuppaia ST. LIC # 254670 TEL NO 2372200

ADDRESS [redacted] S. 648 N MONTE

PLUMB. CONT. _____ ST. LIC # _____ TEL NO _____

ADDRESS _____

ELEC. CONT. _____ ST. LIC # _____ TEL NO _____

ADDRESS _____

MECH. CONT _____ ST. LIC # _____ TEL NO _____

ADDRESS _____

ARCH. OR ENGINEER _____ ST. LIC # _____ TEL NO _____

ADDRESS _____

LEGAL DESC.

A.P.N.

PROJECT

Demo permit
2,400 ± warehouse

Bldg # 3 on plot plan

ZONING

REQUIRED SETBACK	FRONT MIN.	FRONT MAX.	SIDE INTERIOR	SIDE STREET	REAR

APPROVED BY _____ DATE _____

ZONING ACCEPTANCE APPROVED ☐ PENDING ☐

ZONE DISTRICT AL20

REMARKS

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

NO.	PLUMBING		EACH	FEE
	PERMIT FEE		6.00	6.00
	WATER CLOSET	URINAL	5.00	
	KITCHEN SINK	DISPOSAL	5.00	
	WASH MACH.	BATH TUB	5.00	
	LAVATORY	SHOWER	5.00	
	WATER PIPING and/or SERVICE		5.00	
	EA. LAWN SPRINKLING SYST. FOR R.P.D. WITH BACK FLOW DEVICES		10.00	
	ALL OTHER BK. FLOW. DEV.		5.00	
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	EA. BLDG. SEWER		15.00	
	PRIVATE SEWERAGE DISPOSAL SYSTEM		25.00	

NEW SINGLE FAMILY DWELLING

All plumbing work in a newly constructed single family dwelling including sewer & septic system	one bathroom	40.00
	two bathroom	45.00
	three bathroom	50.00
For each additional bathroom above		5.00

Min. $10.00 TOTAL FEE $

NO.	MECHANICAL		EACH	FEE
	PERMIT FEE		6.00	6.00
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	MECH. HOOD			
	DUCT SYSTEM			

REFRIGERATION COOLING UNITS

LESS THAN 7 TONS	6.00
OVER 7 TONS to 14 TONS	9.00
OVER 14 TONS	14.00

NEW SINGLE FAMILY DWELLING

0 to 750 SQ. FT.	10.00
751 to 1500 SQ. FT	15.00
1501 to 2500 SQ. FT.	20.00
EA. ADD. 500 SQ. FT.	1.00

Min. $10.00 TOTAL FEE $

NO.	ELECTRICAL		EACH	FEE
	PERMIT FEE		6.00	
	EA. CIRCUIT (REMODEL WORK ONLY)		2.00	
	EA. WIRING OUTLET & OR FIXTURES AT WHICH CURRENT IS USED OR CONTROLLED		.30 EA.	
	ELEC RANGES	DISHWASHER	3.00	
	DRYERS	HEATER DISP	3.00	
	OUTLET 3.00	WELDER	3.00	
	0-1 HP 2.00	OVER 30-50 HP	11.00	
	OVER 1 TO 5 HP 5.00	OVER 50-100	18.00	
	OVER 5 TO 30 HP 7.00	OVER 100 HP	28.00	
	EA. AG PUMP OR WIND MACH. Min.		20.00	
	EA. TIME CLOCK		2.00	
	EA. ELEC. VALVE		1.00	
	TRANSFORMER			

SERVICE & OR SUB-PANELS

0 TO 200 AMPS	8.00
201 TO 400 AMPS	16.00
401 TO 600 AMPS	25.00
OVER 600 AMPS	50.00

NEW SINGLE FAMILY DWELLING

Area of Construction 0 to 750 Sq. Ft.	25.00
Area of Construction 751 to 1000 Sq. Ft.	30.00
Area of Construction 1001 to 1500 Sq. Ft.	40.00
Area of Construction 1501 to 2000 Sq. Ft.	50.00
Area of Construction 2001 to 2500 Sq. Ft.	60.00
Area of Construction 2501 to 3000 Sq. Ft.	70.00
EA. ADD 100 Sq. Ft.	5.00

Min. $10.00 TOTAL FEE $

TYPE CONST.	OCCUPANCY GROUP
STORIES	

	SQ FT	
BUILDING	@	
GARAGE/CP	@	
PATIO	@	
	TOTAL COST IMP. $	

APPROVED BY MCW	PLAN CHECK
	ENERGY SURCHARGE
	S.M.I.
	SUB TOTAL
VALIDATED BY	BUILDING PERMIT
	PLUMBING PERMIT
	ELECTRICAL PERMIT
ACCOUNT #	MECH. PERMIT
	SUB TOTAL
	SEWER
	DRAINAGE
CASH ☐	Demo 20 —
CHECK ☑	TOTAL

0 20.00 DEMO
1 20.00 TOTL
20.00 CKTO
.00 CACG
C4468 101 2/03/81

BUILDING ADDRESS ______________________________

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Foundation: location forms setback							
Foundation: Garage							
Floor Girders & Joists							
Insulation							
Frame: bracing bolts							
Roof Sheathing							
Roof Covering							
Lath: (exterior)							
Fireplace: damper							
Fireplace: roof							
Shower Wall Over Tub							
Shower Pan & Walls							
Under Floor Area Clean							
Patio and Porch Piers							
Pool Fencing and Gates							
Pool Steel: location forms setback							
Bond Beam & Steel							
FINAL INSPECTION	[illegible]	7-21-51					

ELECTRICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Conduit: Pvc Galv.							
Rough Elec. – Wiring							
Rough Elec. – Main Panel							
Temporary Meter							
Temporary Power Pole							
Ground Electrode							
Ground Clamp							
Pool Steel Bonding							
Pool Equipment Bonding							
Supplemental Ground							
FINAL INSPECTION							

PLUMBING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Ground Plumbing: soil							
Water Pipe							
Vents							
Gas Pipe							
Tub Access							
Dryout Gas							
Septic Tank							
House Sewer							
Septic T. & Pits Backfilled							
Temporary Meter							
Water Service							
FINAL INSPECTION							

MECHANICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS	INSPECTOR'S TRIPS	DATE	CN	NR
Ducts Underfloor							
Duct Overhead							
Fresh Air							
Furnace: gas vents comb. air							
Refrigeration Unit							
Evaporative Cooler							
FINAL INSPECTION							

	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUND BY	DATE
OCCUPANCY BOND							

REMARKS:

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Number 254670 License Class C21

Contractor Archie Cuppia Date 2-3-81

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.):

( ) I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

( ) I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

( ) I am exempt under Sec. _____, B.&P.C. for this reason

Owner Archie Cuppia Date 2-3-81

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab.C.).

Policy No. _____ Company _____

( ) Certified copy is hereby furnished.

(X) Certified copy is filed with the County of Fresno department of Building & Safety.

Date 2-3-81 Applicant Archie Cuppia

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if work performed is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ.C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.

Archie Cuppia 2-3-81

Signature of Applicant or Agent Date

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
4499 E. KINGS CANYON RD
FRESNO, CALIFORNIA 93702
453-3866

APPLICATION FOR PERMIT

24 HR. INSPECTION ANSWERING SERVICE
453-3995
JOHN I. WEAVER
CHIEF BUILDING INSPECTOR

JOB ADDRESS

FOR APPLICANT TO FILL IN (Type or Print)

ZONE 1 - (2) - 3 - 4 - 5 - 6

BUILDING ADDRESS 2155 S. Peach

NEAREST TOWN Fresno NEAREST CROSS ST. California

OWNER SUN MAID (Heyrietta Leach)

MAIL ADDRESS 13525 S. Bethel

CITY Kingsburg TEL NO _____

DEMO CONT. Archie Cuppia ST. LIC. # 254670 TEL NO 2377200

ADDRESS ~~2155 E. Peach~~ 648 N. Monte

PLUMB. CONT. _____ ST. LIC. # _____ TEL NO _____

ADDRESS _____

ELEC. CONT. _____ ST. LIC. # _____ TEL NO _____

ADDRESS _____

MECH. CONT _____ ST. LIC. # _____ TEL NO _____

ADDRESS _____

ARCH. OR ENGINEER _____ ST. LIC. # _____ TEL NO _____

ADDRESS _____

LEGAL DESC.

A.P.N.

PROJECT Demolition permit for 6,000 ft², 1 story warehouse Bldg. #2 on plot plan

ZONING

	FRONT		SIDE		REAR
REQUIRED SETBACK	MIN	MAX.	INTERIOR	STREET	

APPROVED BY _____ DATE _____

ZONING ACCEPTANCE APPROVED ☐ PENDING ☐

ZONE DISTRICT AL-20 REMARKS:

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

NO.	PLUMBING		EACH	FEE
	PERMIT FEE		6.00	6.00
	WATER CLOSET	URINAL	5.00	
	KITCHEN SINK	DISPOSAL	5.00	
	WASH MACH.	BATH TUB	5.00	
	LAVATORY	SHOWER	5.00	
	WATER PIPING and/or SERVICE		5.00	
	EA. LAWN SPRINKLING SYST. FOR S.F.D. WITH BACK FLOW DEVICE		10.00	
	ALL OTHER BK. FLOW. DEV.		5.00	
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	EA. BLDG. SEWER		15.00	
	PRIVATE SEWERAGE DISPOSAL SYSTEM		25.00	

NEW SINGLE FAMILY DWELLING

All plumbing work in a newly constructed single family dwelling excluding sewer & septic system	one bathroom	40.00
	two bathroom	45.00
	three bathroom	50.00
For each additional bathroom fixture		5.00

Min. $10.00 TOTAL FEE $

NO.	MECHANICAL		EACH	FEE
	PERMIT FEE		6.00	6.00
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	MECH. HOOD			
	DUCT SYSTEM			

REFRIGERATION COOLING UNITS

LESS THAN 7 TONS	6.00
OVER 7 TONS to 14 TONS	9.00
OVER 14 TONS	14.00

NEW SINGLE FAMILY DWELLING

0 to 750 SQ. FT.	10.00
751 to 1500 SQ. FT	15.00
1501 to 2500 SQ. FT.	20.00
EA. ADD. 500 SQ. FT.	1.00

Min. $10.00 TOTAL FEE $

NO.	ELECTRICAL		EACH	FEE
	PERMIT FEE		6.00	
	EA. CIRCUIT (REMODEL WORK ONLY)		2.00	
	EA. WIRING OUTLET & OR FIXTURES AT WHICH CURRENT IS USED OR CONTROLLED		.30 EA	
	ELEC RANGES	DISHWASHER	3.00	
	DRYERS	HEATER / DISP	3.00	
	OUTLET 3.00	WELDER	3.00	
	0-1 HP 2.00	OVER 30-50 HP	11.00	
	OVER 1 TO 5 HP 5.00	OVER 50-100	18.00	
	OVER 5 TO 30 HP 7.00	OVER 100 HP	26.00	
	EA. AG PUMP OR WIND MACH. Min.		20.00	
	EA. TIME CLOCK		2.00	
	EA. ELEC. VALVE		1.00	
	TRANSFORMER			

SERVICE & OR SUB-PANELS

0 TO 200 AMPS	5.00
201 TO 400 AMPS	15.00
401 TO 600 AMPS	25.00
OVER 600 AMPS	50.00

NEW SINGLE FAMILY DWELLING

Area of Construction 0 to 750 Sq. Ft.	25.00
Area of Construction 751 to 1000 Sq. Ft.	30.00
Area of Construction 1001 to 1500 Sq. Ft.	40.00
Area of Construction 1501 to 2000 Sq. Ft.	50.00
Area of Construction 2001 to 2500 Sq. Ft.	60.00
Area of Construction 2501 to 3000 Sq. Ft.	70.00
EA. ADD 500 Sq. Ft.	5.00

Min. $10.00 TOTAL FEE $

TYPE CONST.	OCCUPANCY GROUP / STORIES
SQ.FT.	
BUILDING @	
GARAGE/CP @	
PATIO @	
TOTAL COST IMP. $	

APPROVED BY mcb	PLAN CHECK
	ENERGY SURCHARGE
	S.M.I.
	SUB TOTAL
VALIDATED BY	BUILDING PERMIT
	PLUMBING PERMIT
	ELECTRICAL PERMIT
ACCOUNT #	MECH. PERMIT
	SUB TOTAL
	SEWER
	DRAINAGE
	Demo 24 -
	asbest
CASH ☐	
CHECK ☑	TOTAL

0 24.00 DEMO
1 24.00 TOTL
24.00 CKTO
.00 CASH
C4467 10 2/03/81

BUILDING ADDRESS _____

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Foundation: location forms setback			
Foundation: Garage			
Floor Girders & Joists			
Insulation			
Frame: bracing bolts			
Roof Sheathing			
Roof Covering			
Lath: (exterior)			
Fireplace: damper			
Fireplace: roof			
Shower Wall Over Tub			
Shower Pan & Walls			
Under Floor Area Clean			
Patio and Porch Piers			
Pool Fencing and Gates			
Pool Steel: location forms setback			
Bond Beam & Steel			
FINAL INSPECTION	D Parks	12/81	

INSPECTOR'S TRIPS	DATE	CN	NR

ELECTRICAL INSPECTION		INSPECTOR'S APPROVAL	DATE	REMARKS
Conduit: Pvc. Galv				
Rough Elec.	Wiring			
	Main Panel			
Temporary Meter				
Temporary Power Pole				
Ground Electrode				
Ground Clamp				
Pool Steel Bonding				
Pool Equipment Bonding				
Supplemental Ground				
FINAL INSPECTION				

INSPECTOR'S TRIPS	DATE	CN	NR

PLUMBING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ground Plumbing: soil			
Water Pipe			
Vents			
Gas Pipe			
Tub Access			
Dryout Gas			
Septic Tank			
House Sewer			
Septic T. & Pits Backfilled			
Temporary Meter			
Water Service			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

MECHANICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ducts Underfloor			
Duct Overhead			
Fresh Air			
Furnace: gas vents comb. air			
Refrigeration Unit			
Evaporative Cooler			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

OCCUPANCY BOND	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUNDED	DATE

REMARKS

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Number 254670 License Class C21

Contractor Andie Cuppin Date 2-3-81

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Sec. _____ B.&P.C. for this reason

Owner _____ Date _____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab.C.)

Policy No. _____ Company _____

☐ Certified copy is hereby furnished

☐ Certified copy is filed with the County of Fresno department of Building & Safety.

Date 2-3-81 Applicant Andie Cuppin

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if work performed is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ.C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.

Andie Cuppin 2-3-81

Signature of Applicant or Agent Date

NO.	ELECTRICAL		EACH	FEE
	PERMIT FEE		6.00	
	EA. CIRCUIT (REMODEL WORK ONLY)		2.00	
	EA. WIRING OUTLET & OR FIXTURES AT WHICH CURRENT IS USED OR CONTROLLED		.30 EA.	
	ELEC RANGES	DISHWASHER	3.00	
	DRYERS	HEATER / DISP	3.00	
	OUTLET 3.00	WELDER	3.00	
	0-1 HP 2.00	OVER 30-50 HP	11.00	
	OVER 1 TO 5 HP 5.00	OVER 50-100	18.00	
	OVER 5 TO 30 HP 7.00	OVER 100 HP	28.00	
	EA. AG PUMP OR WIND MACH. Min.		20.00	
	EA. TIME CLOCK		2.00	
	EA. ELEC. VALVE		1.00	
	TRANSFORMER			

SERVICE & OR SUB-PANELS

	0 TO 200 AMPS	5.00
	201 TO 400 AMPS	16.00
	401 TO 600 AMPS	25.00
	OVER 600 AMPS	50.00

NEW SINGLE FAMILY DWELLING

	Area of Construction 0 to 750 Sq. Ft.	25.00
	Area of Construction 751 to 1000 Sq. Ft.	30.00
	Area of Construction 1001 to 1500 Sq. Ft.	40.00
	Area of Construction 1501 to 2000 Sq. Ft.	50.00
	Area of Construction 2001 to 2500 Sq. Ft.	60.00
	Area of Construction 2501 to 3000 Sq. Ft.	70.00
	EA. ADD 500 Sq. Ft.	5.00

Min. $10.00 TOTAL FEE $

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
4499 E. KINGS CANYON RD.
FRESNO, CALIFORNIA 93702
453-3686

APPLICATION FOR PERMIT

24 HR. INSPECTION ANSWERING SERVICE
453-3895
JOHN I. WEAVER
CHIEF BUILDING INSPECTOR

City

FOR APPLICANT TO FILL IN (Type or Print)

ZONE 1 (2) 3 - 4 - 5 - 6

JOB ADDRESS

BUILDING ADDRESS 2155 S Peach

NEAREST TOWN Fresno NEAREST CROSS ST California

OWNER Sun Maid Henrietta Ranch

MAIL ADDRESS 13525 S Bethel

CITY Kingsburg TEL. NO. _____

CONT. Andie Cuppin ST. LIC. # 254670 TEL NO. 237-7200

ADDRESS 648 N Monte Fresno 93728

PLUMB. CONT. _____ ST. LIC. # _____ TEL NO. _____

ADDRESS _____

ELEC. CONT. _____ ST. LIC. # _____ TEL NO. _____

ADDRESS _____

MECH. CONT. _____ ST. LIC. # _____ TEL NO. _____

ADDRESS _____

ARCH. OR ENGINEER _____ ST. LIC. # _____ TEL NO. _____

ADDRESS _____

LEGAL DESC.

19-14-21

A.P.N. 481-020-04

PROJECT

Demolition permit
6000 # warehouse,
1 story
Bldg # 1 on
plot plan

ZONING

	FRONT		SIDE		REAR
REQUIRED SETBACK	MIN.	MAX.	INTERIOR	STREET	

APPROVED BY _____ DATE _____

ZONING ACCEPTANCE APPROVED ☐ PENDING ☐

ZONE DISTRICT R-20 REMARKS

NO.	PLUMBING		EACH	FEE
	PERMIT FEE		6.00	6.00
	WATER CLOSET	URINAL	5.00	
	KITCHEN SINK	DISPOSAL	5.00	
	WASH MACH.	BATH TUB	5.00	
	LAVATORY	SHOWER	5.00	
	WATER PIPING and/or SERVICE		5.00	
	EA. LAWN SPRINKLING SYST. FOR S.F.D. WITH BACK FLOW DEVICES		10.00	
	ALL OTHER BK. FLOW. DEV.		5.00	
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	EA. BLDG. SEWER		15.00	
	PRIVATE SEWERAGE DISPOSAL SYSTEM		25.00	

NEW SINGLE FAMILY DWELLING

All plumbing with in a newly constructed single family dwelling excluding sewer & septic system	one bathroom	40.00
	two bathroom	45.00
	three bathroom	50.00
	For each additional bathroom fixture	5.00

Min. $10.00 TOTAL FEE $

NO.	MECHANICAL		EACH	FEE
	PERMIT FEE		6.00	6.00
	EA. GAS PIPING SYSTEM	1-5 outlets	5.00	
	Ea. Additional Outlet	6 or more	1.00 ea.	
	GAS APPLIANCE		6.00	
	MECH. HOOD			
	DUCT SYSTEM			

REFRIGERATION COOLING UNITS

	LESS THAN 7 TONS	6.00
	OVER 7 TONS to 14 TONS	9.00
	OVER 14 TONS	14.00

NEW SINGLE FAMILY DWELLING

	0 to 750 SQ. FT.	10.00
	751 to 1500 SQ. FT	15.00
	1501 to 2500 SQ. FT.	20.00
	EA. ADD. 500 SQ. FT.	1.00

Min. $10.00 TOTAL FEE $

WHEN VALIDATED THIS APPLICATION IS YOUR PERMIT

0 24.00 DEMO
1 24.00 TOTL
24.00 CKTO
.00 CACS
C4466 101 2/03/81

TYPE CONST. _____ OCCUPANCY GROUP _____ STORIES _____

SQ.FT.

BUILDING	@		
GARAGE/CP	@		
PATIO	@		
TOTAL COST IMP. $			

APPROVED BY mche

VALIDATED BY _____

ACCOUNT _____

CASH ☐

CHECK ☑

PLAN CHECK	
ENERGY SURCHARGE	
S.M.I.	
SUB TOTAL	
BUILDING PERMIT	
PLUMBING PERMIT	
ELECTRICAL PERMIT	
MECH. PERMIT	
SUB TOTAL	
SEWER	
DRAINAGE	
Demo Permit	24 00
TOTAL	

JOB SITE ADDRESS

INSPECTION RECORD

BUILDING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Temporary Location/Toilet Facility			
Foundation Forms			
Pier Footings & Depths			
Underfloor			
Floor Framing			
Roof Framing			
Roof Covering			
Lath (Exterior)			
Fireplace Firebox			
Fireplace Roof			
Shower Stall Over Tub			
Shower Pan & Walls			
Under Floor Area Clean			
Patio and Porch Piers			
Pool Fencing and Gates			
Pool Steps Location Dimensions Setback			
Pool Beam & Steel			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

ELECTRICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Conduit Pvc — Galv			
Rough Trim	@ Pole		
	Main Panel		
Temporary Meter			
Temporary Power Pole			
Grounding Electrode			
Grounding Clamp			
Pool Steel Bonding			
Pool Equipment Bonding			
Supplemental Ground			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

PLUMBING INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ground Plumbing Wet			
Water Pipe			
Vents			
Gas Pipe			
Tub Access			
Drywall Gas			
Septic Tank			
Absorption			
Septic T. & Fld. Backfilled			
Temporary Water			
Water Service			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

MECHANICAL INSPECTION	INSPECTOR'S APPROVAL	DATE	REMARKS
Ducts Underfloor			
Duct Openings			
Fans Attic			
Ventilation Openings Under Floor			
Fan			
Enclosure Openings			
FINAL INSPECTION			

INSPECTOR'S TRIPS	DATE	CN	NR

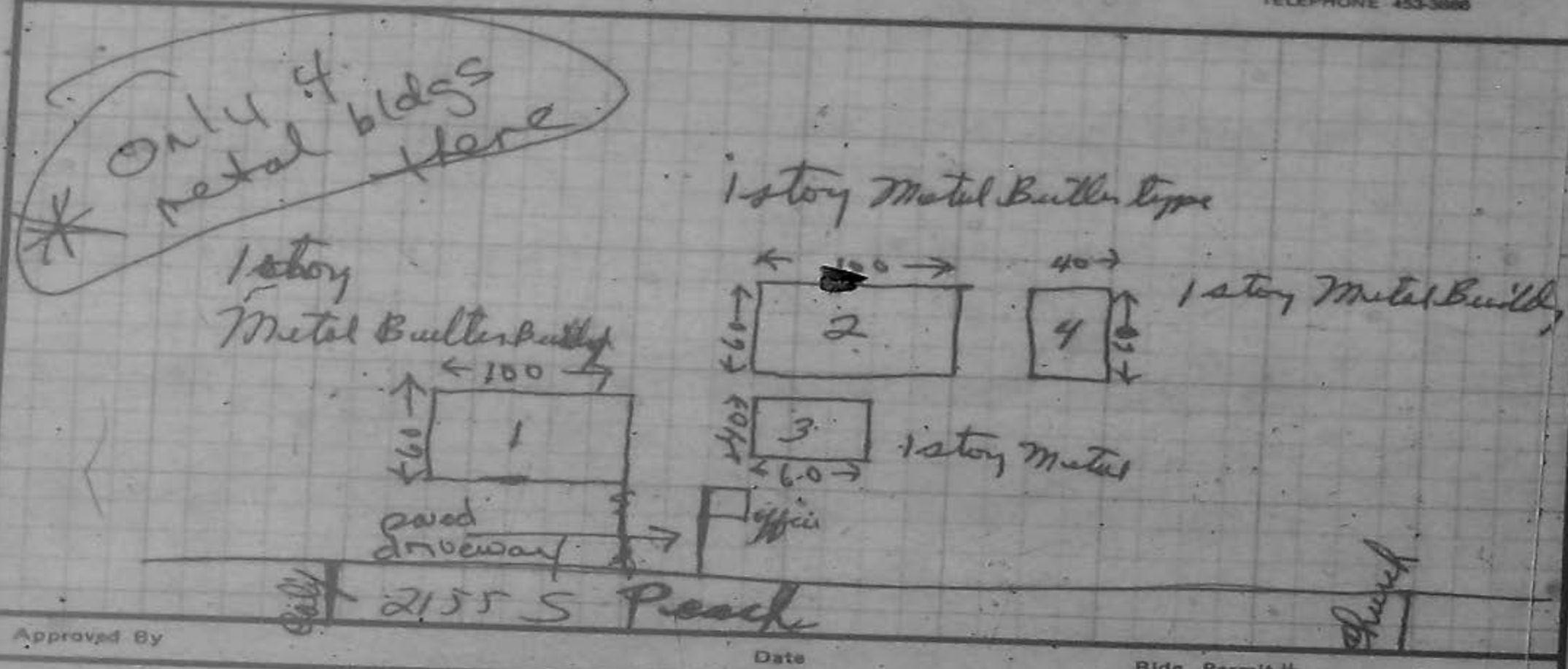
	AMOUNT	INSPECTOR'S SIGN	DATE	APPROVED BY	DATE	REFUNDED BY	DATE
OCCUPANCY BOND							

REMARKS:

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDING AND SAFETY
CLINTON D. BEERY
DIRECTOR OF PUBLIC WORKS

PLOT PLAN

JOHN I. WEAVER
CHIEF BUILDING INSPECTOR
4499 E. KINGS CANYON ROAD
FRESNO, CALIFORNIA 93702
TELEPHONE 453-3886



Approved By Date Bldg. Permit #

BUILDING ADDRESS 2155 S Peach
OWNER Sup Maid/HENRIETTA RANCH LOCALITY Fresno CROSS ST Golf
CITY Hanford ADDRESS 13525 S. Bethel
13525 S BETHEL TEL NO

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS

BUILDING TO BE SERVED RESIDENCE NO BEDROOMS GARBAGE GRINDER 3 OTHER
MINIMUM SEPTIC TANK 50 FT FACTOR SQ FT / 100 GAL GAL MINIMUM SEEPAGE PIT OR LEACHING FIELD AREA
RECTANGULAR
LENGTH 1ST COMP FT
2ND COMP FT
WIDTH FT
LIQUID DEPTH FT
TOTAL LIQUID CAPACITY GAL

CIRCULAR
DIA 1ST COMP IN
2ND COMP IN
3RD COMP IN
LIQUID DEPTH
TOTAL LIQUID CAPACITY GAL

SEEPAGE PITS
NUMBER
DIAMETER 4
DEPTH FT
LINING
LOT LINE FT
FOUNDATION FT

LEACHING FIELD
TOTAL LENGTH FT
TOTAL WIDTH FT
NO OF LINES
ROCK UNDER TILE IN
ROCK ABOVE TILE IN
DIST BOX
SQUARE FEET

WATER WELL SPECIFICATIONS

DISTANCE TO NEAREST WELL FT PRIVATE
WELL LOG NO COMMUNITY
DATE GPM

HEALTH DEPT. COMMENTS

I HEREBY STATE THAT THE INFORMATION ABOVE IS CORRECT. I UNDERSTAND THAT THE PERMIT MUST BE OBTAINED BEFORE ANY CONSTRUCTION IS STARTED AND THAT AN INSPECTION OF THE SYSTEM IS REQUIRED BEFORE BACKFILLING.

SIGNATURE Andie Cuppen DATE 2-3-84

1. ON SITE SYSTEM DATE
SEWER NOTIFICATION
2. APPLICATION APPROVED DATE
PRE-POUR INSPECTION DATE
FINAL INSPECTION DATE

CITY OF FRESNO

SPECIAL REQUEST FOR CITY SERVICE

Department & Individual Receiving Request: BUILDING & SAFETY (BRIAN LEONG) Date: 4/20/09

Requesting Party: _____ Time: 2:30 a.m. (p.m.)

Address: _____ Telephone No.: _____

Service Location: 2155 So. PEACH AVE.

Nature of Request: DOING WORK WITHOUT PERMITS.

Department Assigned to: BUILDING & SAFETY Employee: JAMES MELTON Title: BLDG. INSP. III

Reassigned to: _____ By: _____ Title: _____

Disposition: DOING DEMO WORK ON CLASSROOMS AND PORTABLE TRAILORS. POST "STOP WORK" NOTICE. I ALSO CALLED PETE ROCCO (PARKS MANAGER) WHO IS IN CHANGE OF THIS PARCEL FOR THE CITY OF FRESNO.

Was requesting party notified? _____ (yes or no) How notified? _____

Signed: James Melton Title: BLDG. INSP. III Date: 4/20/09

TO: C.A.O.

Reviewed by: _____ Title: _____ Date: _____

TO: Dept. Completing Service Returned for Review and File

716-1400

Reviewed by: _____ Title: _____ Date: _____

REQUESTING PARTY MUST BE NOTIFIED

1. Whenever a requesting party is requesting service from the wrong department, the department receiving the request should write up the request on this form and refer it to the proper department. DO NOT RUN THE CITIZEN AROUND. After appropriate department receives the request, that department will advise requesting party of action taken. This must be done within 48 hours after the request is received.

2. Notification should be made, when at all possible, by personal contact. If personal contact is not possible, the party must be notified by letter, telephone or by postal card.

3. The Special Request Form need not be made out where parties seek only information or are requesting a standard service for the first time or when specific requests are not made.

4. The department head concerned will review the request and then forward a copy to the CAO's office for further review. The completed form will then be returned to the department performing the service.

5. In the event a department is unable to satisfactorily resolve a special request, the department head should submit this fact to the office of the CAO. The report should contain the following:

   a. Name, address and telephone number of complainant

   b. History and nature of complaint

   c. The Department's action taken

   d. The current status of the problem and any recommendations by the department head.

Downtown Education & Charter Schools
Action Plan

Background

The City is currently working with Aspire Public Schools and Envision Schools to assist them in opening new charter schools to be located on the City's Peach Avenue Complex and possibly multiple locations in the downtown area. Our objective is to assist these charter management organizations (CMO) in the development of high quality, well-run public charters schools to change the educational dynamics of Fresno and to provide new and innovative educational options to downtown residents, downtown employees and other area citizens.

Charter Management Organizations

Aspire Public Schools
Aspire schools are categorized as small schools and have a college-preparatory focus. Elementary schools (grades K-5) are about 360 students; secondary schools (grades 6-12) are about 400 students. Increasingly many of the new charter schools are being started by "charter management organizations" (CMO's): organizations that establish and run multiple schools. Aspire is widely considered the leading not-for-profit CMO.

Envision Schools
Envision Schools began operations with full-time staff in June 2002. Co-founded by a former Vice President of the Bank of America and an award-winning teacher and nationally recognized school reform leader, Envision has demonstrated the capacity to launch high-performing public high schools that prepare students for college success and democratic citizenship in the 21st Century.

Between both CMO's, there will be 4 new charters schools opened by fall of 2008. By Fall of 2007, Aspire will open its first K-8 school at the Peach Avenue complex. In Fall of 2008 Envision will open two 9-12 high school campuses, one at the Peach Avenue Complex and another at a site to be determined downtown. In Fall of 2008, Aspire will open its second K-8 school in the downtown area. The intent by each organization is to open a total of 5 to 10 new schools apiece in the Fresno area.

Strategy / Tactics: Opening Peach Avenue & Downtown Charter Schools

Critical Dates

- End of September 2006 – Submit charter petition to FUSD / FCOE
- January 2007 – Appointed principal working with community groups on community outreach & recruitment

Land Preparation – Steps necessary for land to be ready for construction of new schools.

Land / Charter Schools

- Hire Henderson Architects Consultants to complete conceptual plan for the entire 50 acres by August 11th
- Attain stock building layout plans from Aspire and Envision by August 11th

Re-designation of Land Use for Education Purposes o of 10 Acres

- Len Simon communication with GSA and other federal government agencies to expedite process
- Final hand-over of deed completed by
- Request Public Benefit Process application from the US Department of Education
- Submit application to the US Department of Education

Facilities

- Conditional Use Permit
  -
  -
- Infrastructure build out
  -
  -

Financing Plan

- CMO Pursuit of State bond money
- Pursuit of private placement bond
- Pursue opportunity of working with district

Charter Management Organization's Critical Path Map – Necessary steps taken by the CMO with assistance by the City

- Orientation meeting with FUSD Superintendent

- Submit charter petition
- Early planning grant applications
- Community outreach efforts
- Charter petition preparation
- Community / parent meetings
- Petition review by charter authorizing organization
- Appeal to county for charter authorization if necessary
- Filing of Prop 39 request
- Staff recruitment
- Staff development
- Student recruitment / enrollment
- Open School


SYLMAR
HAMILTON
BUSH
CAESAR
CAESAR
HOMSY
HOMSY
WALDBY
VILLA
KAREN
PEACH
WALDBY
ORANGEWOOD
DWIGHT
DWIGHT
CAR BUSES
P
P
P
P
P
S
S
E
B
A
C
D
MAYOR'S PROJECTS
Recreation Area
Picnic Pavilions
Fields - Soccer, Softball, Baseball
Tot Lots
Spray Park
Par Course
Courts - Tennis, Basketball
LEGEND:
A = Amphitheater
B = Barn/Camp rooms-New Bldg.
C = Conference Ctr/Museum- EOC New Bldg
D = Discovery Center-New Bldg.
E = Demo Ag Crops
P = PRCS HQ & Maint. Yard
S = Science & Model Airplanes Workshops
CONCEPT PLAN
USDA PEACH PROPERTY FRESNO
Map created with ArcIMS - Copyright (C) 1992-2002 ESRI Inc.
0
0.098mi

City of FRESNO

REPORT TO THE CITY COUNCIL

AGENDA ITEM NO.
COUNCIL MEETING 05/9/06
APPROVED BY
CITY MANAGER

May 9, 2006

FROM: RANDY COOPER, Director
Parks, Recreation and Community Services

THROUGH: DARRELL UNRUH, Planning Manager
Secretary, Historic Preservation Commission

10/9/06

BY: KARANA HATTERSLEY-DRAYTON
Historic Preservation Project Manager

SUBJECT: CONSIDER DESIGNATION OF THE PEACH AVENUE USDA HORTICULTURAL FIELD STATION HISTORIC DISTRICT LOCATED AT 2021 SOUTH PEACH AVENUE TO THE LOCAL REGISTER OF HISTORIC RESOURCES.

KEY RESULT AREA

One Fresno

RECOMMENDATION

The Historic Preservation Commission recommends that the City Council adopt the attached Resolution placing the Peach Avenue USDA Horticultural Field Station on the Local Register of Historic Resources as a Historic District.

EXECUTIVE SUMMARY

The Department of Parks, Recreation and Community Services (PRCS) supports nomination of the former USDA Horticultural Field Station as a historic district to Fresno's Local Register of Historic Resources. PRCS intends to adaptively reuse the five buildings within the district boundaries for museum and park facilities and plant up to two acres of fallow land as a demonstration garden. Historic status allows use of the California Historic Building Code for rehabilitation and completes the City's obligation to the federal government regarding official transfer of the deed. This status specifically applies to the aforementioned buildings and acres. The remaining buildings and acres in the 20 acres above the tracks, as well as the 30 acres below the railroad tracks are not considered part of the historic district. The City of Fresno's Historic Preservation Commission held a noticed public hearing on March 13, 2006 regarding nomination of the historic district and concluded that it was eligible to the Register under Criteria i and ii. The Historic Preservation Commission hereby forwards this nomination to the City Council for consideration.

KEY OBJECTIVE BALANCE

Council action on historic preservation applications positively addresses the three Key Objectives of Customer Satisfaction, Financial Management and Employee Satisfaction. Customer service is the number one priority of the Historic Preservation Program and includes both external and internal customers. In the case of nominations to the Local Register, staff responds to applications from external customers, property owners, to have homes, commercial buildings or districts designated as historic properties as provided for through the Fresno Municipal Code and the City's 2025 General Plan. Historic Preservation funding is derived almost exclusively from federal funds which are specifically designated for the purpose. Employee satisfaction is derived from working with our customers, the citizens of Fresno, to help protect the City's historic resources and preserve and enhance neighborhoods.

BACKGROUND

The former USDA Horticultural Field Station is located on approximately 50 acres at 2021 South Peach Avenue in Southeast Fresno. From 1916 to 2000 the Station played a pivotal role in the development of fruit varieties and research in fruit genetics, post harvest transport and entomology that contributed to the development and advancement of agriculture in the San Joaquin Valley as well as throughout California and the United States. By 1936 a core campus of five buildings was on the northern original 20 acres of the parcel including a residence for the Station's director, a pump house, a genetics laboratory, market quality unit and greenhouse. All buildings were designed with Spanish Revival detailing. Over the next 45 years the original buildings were altered and added to and new as well as "temporary" buildings were constructed. In the year 2000 the USDA Field Station was moved to Parlier and the South Peach facility was closed. The 50 acres were determined surplus and the federal government began a process of divestment. The City of Fresno through PRCS applied to the U.S. Department of the Interior, National Parks Service (NPS) for the property, with the hope of using the parcel for sorely needed recreational facilities and open space. The joint application was sent to General Services Administration (GSA) and approved. On April 14, 2005, NPS notified the Parks Director that the City's application would be granted.

The transfer of federal property qualified as a "federal undertaking" as defined under federal law (36 CFR Part 800.16(y). Therefore the National Park Service, serving as the lead agency for the transfer process, was required to evaluate the affects of this transfer on any potential historic properties. NPS of course passed the work on to the city and PRCS who hired a consulting firm to prepare the analysis. What is required for a federal undertaking is to evaluate whether or not there are any "historic properties" as defined by Section 106 of the National Historic Preservation Act; thus are there resources eligible to the National Register?

Prior to the City of Fresno receiving the USDA Horticultural Field Station property, an environmental historical report was done. This report was authorized by the USDA. Applied Earthworks was the company that completed that report, which clearly established the existence of several potentially historic buildings. The City of Fresno was obligated under the terms of the property transfer to do a comprehensive and complete environmental historical evaluation of the property. Applied Earthworks was again identified to do this work because their experience and previous involvement with this property gave them the ability to expedite a report/evaluation.

Applied Earthworks November 2005 report concluded that the entire 20 acres, north of California Ave. (railroad tracks) should be considered an historical asset and eligible as a National Register district. We, the City of Fresno, disagreed and proposed that only the 5 oldest buildings, greenhouse, landscaping, infrastructure and 2 acres of farmland be identified as historic assets. The acres and buildings not included would not be considered historic. Specifically, the bottom 30 acres, south of the railroad tracks, would not be considered a historic asset or the balance of the land or buildings not identified above the railroad tracks.

At the January 23, 2006 public hearing the Historic Preservation Commission on a 5-0 vote supported the staff position that the former Field Station was eligible to the National Register of Historic Places under Criterion A and B with a period of significance of 1916-2000. The Commission also supported the staff recommendation for a smaller redrawn district boundary that includes the core campus that dates to 1936. The district thus includes the five oldest buildings and their additions (Buildings 9, 10, 11, 12 and 18), landscaping and infrastructure and up to 2 acres of fallow land, which will remain in garden or agricultural use.

The greenhouses at the western edge of the field (Buildings 31) should be retained if they are structurally sound, as they are on axis with Building 10 and contribute to the visual integrity of this portion of the site. The 1980s constructed Building 15 is a non-contributor to the District but this and any other structurally viable building on the full 20- acre site should be retained if they can be adaptively reused by the City.

The staff and commission recommendations were forwarded to the SHPO along with the Applied Earthworks report in a letter dated February 2, 2006. Copies of this letter and the report were also sent to the National Park Service in San Francisco. In a letter dated February 27, 2006 and received by the Department on March 9, the SHPO did not concur with either the consultants' findings or the Commission's revised district boundaries and did not agree that any part of the site was eligible as a district for the National Register. In a May 22, 2006 letter Jane Lehman, the Regional Historic Preservation Office for the U.S. General Services Administration, also concurred with the SHPO findings regarding National Register eligibility of the property, but noted the importance of the site and that "a determination of non-eligibility for the HRHP does not preclude a property from being listed on a local historical register."

Regardless of whether the site is a National Register property or not, it is the consensus of Planning and PRCS staff, the Historic Preservation Commission and NPS staff that the former USDA Field Station has great historic significance and should be preserved and adaptively reused as a district under Fresno's Local Register of Historic Resources. The placement on the Register ensures not only the use of the California Historic Building Code but also the City's environmental obligations under federal and state laws, including the California Environmental Quality Act (CEQA).

Fresno has had a Local Register of Historic Resources for 27 years. Of the 250 or so individual properties on the Register only 27 of these are also on the National Register. Local Registers are set up to help preserve and celebrate local resources, not all of which meet the very high threshold for the National Register.

Attachments
Exhibit A - Designation Criteria for Local Historic Districts.
Exhibit B - District Record and Revised District Map.
Exhibit C - A Resolution of the City Council of the City of Fresno, California, Designating the Peach Avenue USDA Horticultural Field Station Historic District to the Local Register of Historic Resources.

DON
PHIL
CHARLES - ASPIRE

City of FRESNO

OFFICE OF THE CITY MANAGER

FALL 2007 - TO OPEN

Downtown Education & Charter Schools

Agenda
August 31, 2006

MASTER PLAN
PMK School } operational Statement

To depts

I. CUP Application Steps

- Operational Statement
- Conceptual Plan
  landscape plan
  elevations

II. Alternate Location of Charter School Footprint

III. Temporary Site Process

- Portables Buildings – 10 or 11 buildings – How to get them?
- Alternative Location for Charter Schools (South Side)

1. Rent Them
2. GE - Capital
3. School District

IV. Movement Forward

T/S - Scott mazur

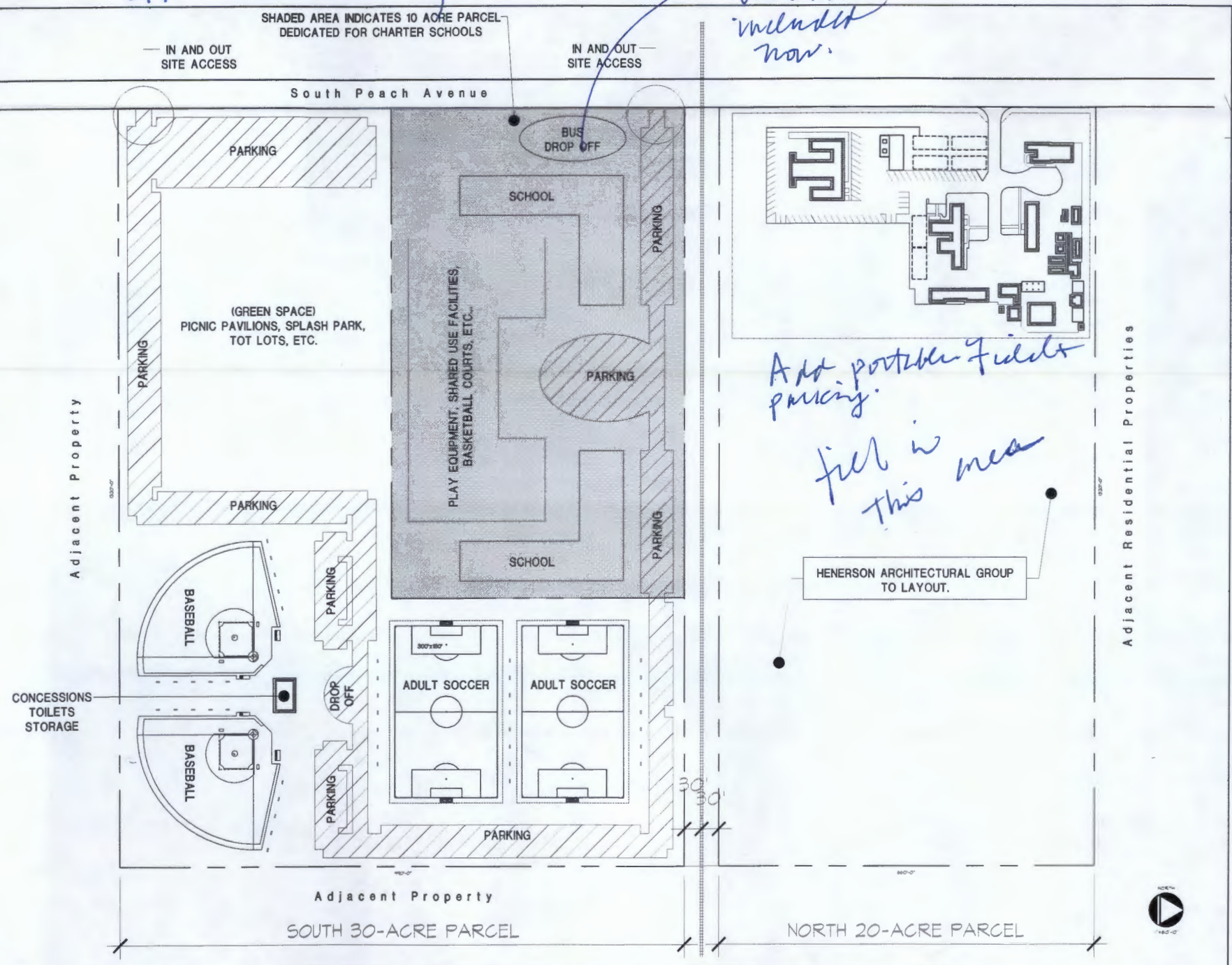
35,000 ft for 350 students.

Sept 14, 2006 -
~~Submit~~
MTG w/ Fresno Unified

LA 210
215
17.10

GP - Public Facility —

Jerry said not intended now.



Add possible fields parking.

fill in this area

REVISED CONCEPTUAL SITE PLAN TO REFLECT THE CITY OF FRESNO'S FLOW DIRECTION.

Private School — not subject to noise

Environmental for entire site

Traffic Study ???

Henderson Architectural Group, Inc.

Architect

Project: City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner: City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Dates
Schematic
Design Development
Site Plan Review
Bidding
Plan Check
Revisions

Scale: 1"=60'-0"
Project Manager: DAVE HENDERSON
Project Number: 06-148
Sheet: A-0.0

South Peach Avenue

10-Acre Parcel Dedicated for Charter Schools

K-8 School

9-12 School

Open Blacktop and Grass Area

Green Space with Picnic Pavilions, Splash Park, Tot Lots, Ect.

Adjacent Property (X-2)

Adult Soccer Field

Adult Soccer Field

Baseball Field

Baseball Field

Concessions/Toilets/Storage

Drop-Off

SOUTH 30-ACRE PARCEL
HENDERSON ARCHITECTURAL GROUP

RAILROAD

corp yard

PRCS/LCC Maintenance Corporation yard

PRCSHQ Campus

Multi-Use

Historical Crops 2.2 AC

LCC Training

State Museum LCC

Agricultural Museum

Leasing Center

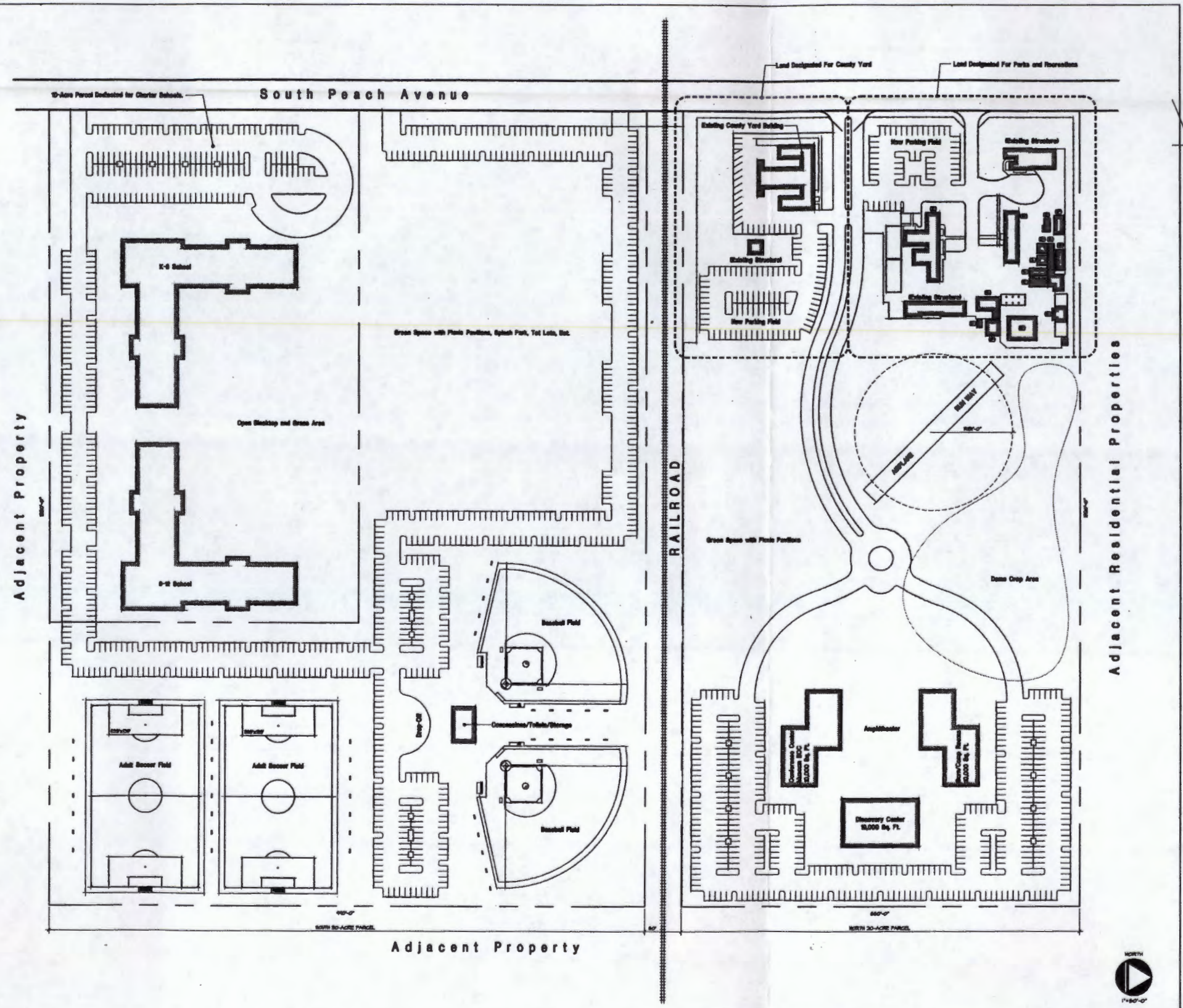
Zinkin Fitness Ctr.

Discovery Center & Exploratorium

NORTH 20-ACRE PARCEL (18.5 ACRES NET)
DYSON KARBY SIEGRIST JANZEN ARCHITECTS

CITY OF FRESNO PEACH AVENUE COMPLEX PROPOSED CONCEPTUAL SITE PLANS

NORTH
1"=60'-0"



Proposed Site Plan

Henderson Architectural Group, Inc.

1400 North Van Ness Avenue
Fresno, California 93728
000.000.0000 sales
000.000.0001 fax

Architect

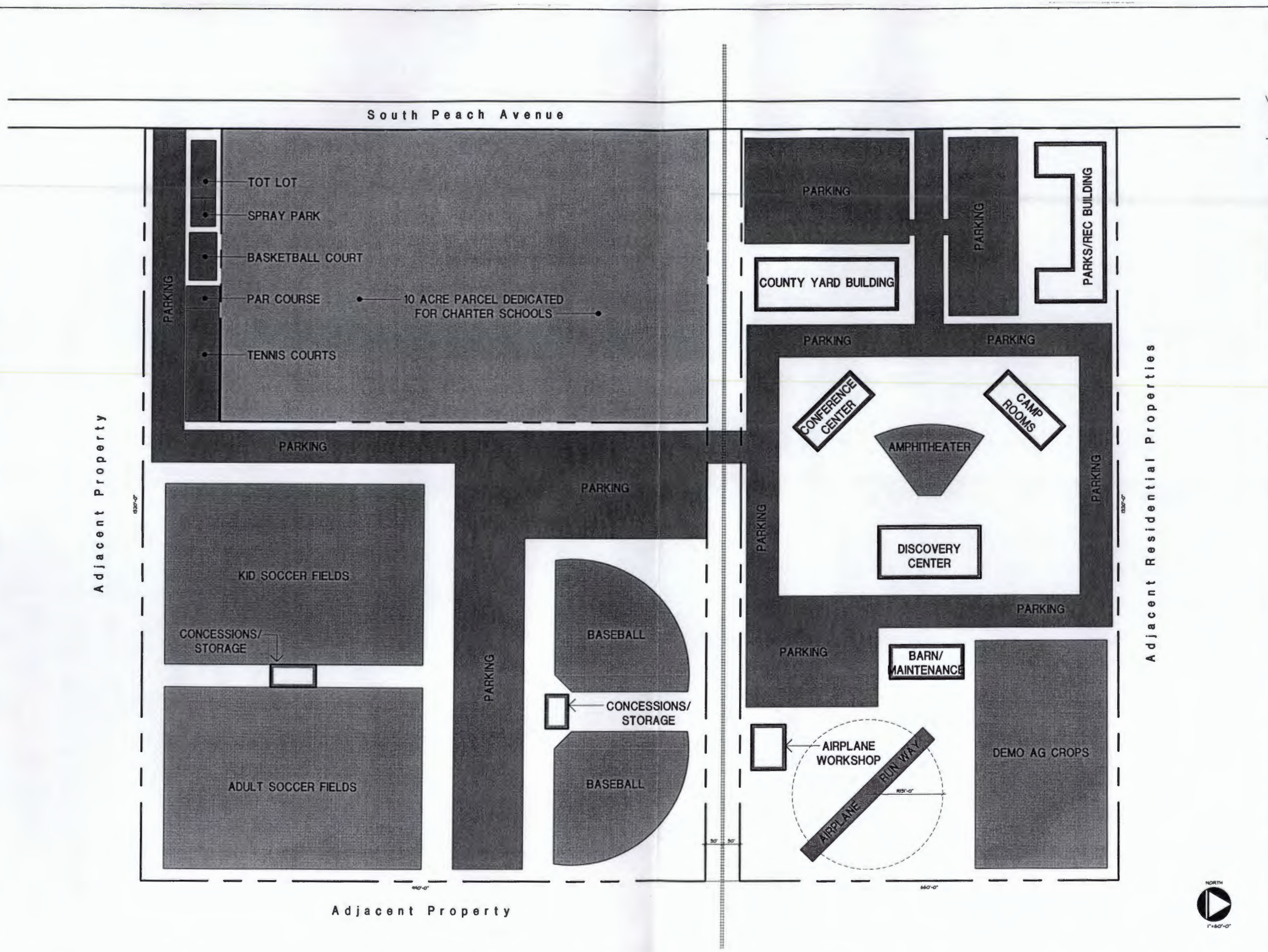
Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
City Plan Review
Bidding
Plan Check
Revisions

Scale
1"=50'-0"
Project Manager
Project Number
Sheet

A-0.0



Conceptual Site Plan (Scheme A)

Henderson Architectural Group, Inc.
1603 North Van Ness Avenue
Fresno, California 93728
559.485.0000 voice
559.485.0001 fax

Architect

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
Site Plan Review
Bidding
Plan Check
Revisions

Scale
1"=60'-0"
Project Manager
DAVE HENDERSON
Project Number
06-149
Sheet
A-0.0

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South Peach Avenue

PARKING
TOT LOTS
SPLASH PARK
KID SOCCER FIELDS
CONCESSIONS/ STORAGE
BASKETBALL COURT
BASKETBALL COURT
TENNIS COURTS
PARKING
10 ACRE PARCEL DEDICATED FOR CHARTER SCHOOLS
PARKING
PARKING
PARKS/REC BUILDING
COUNTY YARD BUILDING
PARKING
PARKING
CONFERENCE CENTER
CAMP ROOMS
AMPHITHEATER
PARKING
PARKING
DISCOVERY CENTER
PARKING
PARKING
BARN/ MAINTENANCE
ADULT SOCCER FIELDS
BASEBALL
CONCESSIONS/ STORAGE
BASEBALL
AIRPLANE WORKSHOP
AIRPLANE RUN WAY
DEMO AG CROPS

Adjacent Property

Adjacent Residential Properties

NORTH

1"=60'-0"

Conceptual Site Plan (Scheme B)

Henderson Architectural Group, Inc.
1465 North Van Ness Avenue
Fresno, California 93728
000.000.0000 voice
000.000.0001 fax

Architect

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Schematic
Design Development
City Plan Review
Bidding
Plan Check
Revisions

Scale
1"=60'-0"
Project Manager
DAVE HENDERSON
Project Number
06-149
Sheet
A-0.0

South Peach Avenue

PARKING

TOT LOTS

SPLASH PARK

KID SOCCER FIELDS

BASKETBALL COURT

BASKETBALL COURT

TENNIS COURTS

PARKING

10 ACRE PARCEL DEDICATED FOR CHARTER SCHOOLS

CONCESSIONS/ STORAGE

PARKING

CONCESSIONS/ STORAGE

ADULT SOCCER FIELD

ADULT SOCCER FIELD

BASEBALL

BASEBALL

PARKING

PARKING

COUNTY YARD BUILDING

PARKING

PARKING

PARKS/REC BUILDING

PARKING

CONFERENCE CENTER

AMPHITHEATER

CAMP ROOMS

PARKING

PARKING

DISCOVERY CENTER

PARKING

PARKING

BARN/ MAINTENANCE

AIRPLANE WORKSHOP

RUN WAY

AIRPLANE

DEMO AG CROPS

Adjacent Property

Adjacent Residential Properties

Adjacent Property

NORTH

1"=80'-0"

Conceptual Site Plan (Scheme B)

Henderson Architectural Group, Inc.
1003 North Van Ness Avenue
Fresno, California 93728
559.486.0000 voice
559.486.0001 fax

Project
City of Fresno - Peach Avenue Property
Peach Avenue
Fresno, California

Owner
City of Fresno
2600 Fresno Street
Fresno, California 93721

Publishing Status
Submittals
Design Development
Site Plan Review
Bidding
Plan Check
Revisions

Scale 1"=80'-0"
Project Manager DAVE HENDERSON
Project Number 06-146
Sheet A-0.0

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City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
October 10, 2006

I. Conceptual and Master Plan Development

- Art Dyson – Master Plan
- Conceptual Plan Drawing

II. PRCS Department Site Plan Projects

- Zinkin Family Recreation/Nutrition/Sports Facility
- Conservation Corp State Museum
- Discovery Center

III. Charter Schools Update

- Land Re-designation
- Milestones
- Aspire Site Visit (Stockton)

City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
October 5, 2006

I. Upcoming Meeting with Mayor's Office & City Manager's Office

II. Peach Property Update

- Master Plan & Conceptual Plan Update
- US General Services Administration – Land Re-designation

III. CUP Application & Traffic Study

- Funding for Traffic Study
- Operational Statements

IV. Charter Schools Update

- Financing of School Buildings – find financing for Charter School
- Portables on site
- Number of Portables & Costs Associated

V. Path Forward

From: Sophia Pagoulatos
To: John Madrid
Date: 8/24/2006 11:27:44 AM
Subject: Re: Fwd: Peach Ave Park & Charter School

John:

I also committed to providing you with supplemental information, i.e. information to be provided in addition to the site plans and elevations, that we need to process the CUP. Here's a list:

1. Operational Statement: this is a narrative document that explains the operations of a use. For example, for the charter schools, we would need # of Students, # of staff, hours of operation, grades served, # of classrooms, # of seats or square footage of any large auditoriums, whether or not the schools would provide their own bus transport; need for bus circulation, # of deliveries of food or supplies, use of outdoor facilities, etc. For the recreational facilities on the site, hours of operation, whether or not the facility would have night lighting, maximum capacity (# of people), etc. Also would need this for the uses on the northern portion of the site. Basically anything that relates to the use.

2. Supplemental studies: In this case, we will need at a minimum the following:

a. Traffic Impact Study-this is typically contracted out. There are several traffic engineering firms in the area; you need to get this going asap as they take 60-120 days.

b. Phase I (and Phase II) Site Assessments for site contamination. These are also contracted out and take time. Need to get this underway if it hasn't been done already. I think Parks mentioned that this has already been done. If so, we will need copies with the application.

c. Cultural Resource Surveys - this would be necessary for the northern portion of the site. Maybe this has already been done? Contact Karana Hattersley-Drayton, Cultural Resource Project Manager at x8520.

Let me know if you have any questions--

Sophia Pagoulatos
City of Fresno
Planning & Development Department
Supervising Planner
(559) 621-8062

>>> John Madrid 8/24/2006 10:39 AM >>>
Sophia,

I've been out sick for a few days and am catching up on some old emails. Thanks again for the information below and I did receive the CUP application.

jm

>>> Sophia Pagoulatos 08/15/06 1:59 PM >>>
John-

The planning department has already determined that the zoning on the property is appropriate, and the only planning entitlement needed is a conditional use permit. In order to begin our review of the permit, a conditional use permit application needs to be submitted to our department on our standard form, which I will send you via interoffice mail (unfortunately it is not yet electronic). The form comes with instructions for the submittal of the application, and I will be happy to meet with you and discuss. The most important components of the application are the operational statement (in which the project is described in detail)

and the plans, drawn by a licensed architect.

Once a complete application has been submitted, the planning department reviews it in conjunction with about 20+ additional reviewing departments and agencies, including public works. It is during this process that on-site and off-site infrastructure requirements are determined. Your finalized conditional use permit will consist of conditions of approval, which will clearly state all infrastructure and other development requirements.

Once you receive the application form, let's meet to discuss.

Hope this helps--

Sophia Pagoulatos
Planning & Development Department
Supervising Planner
x8062

>>> John Madrid 8/9/2006 11:08 AM >>>
Sophia, thank you. The document is extremely helpful. Where I still need some clarification is what type of structural things are looked at prior to or during the submission of the applications. Examples of this could be re-zoning for use, looking at utility infrastructure, curbs, gutters, street improvements, etc. And is it the CUP process that enacts Public Works and / or other departments to begin the work on these? If that's the case then I just need a list of those items that are normally looked at. Again, I appreciate your help.

jm

>>> Sophia Pagoulatos 08/09/06 9:47 AM >>>
John-

Attached is an approximate timeline.

Sophia

>>> John Madrid 8/8/2006 2:43 PM >>>
Sophia, could you add information to the action plan that runs down the CUP processes and steps. Nick had mentioned it would take approx. 75-90 days but not quite sure what is included in that process. If you could provide approximately how long each step would take, that would be helpful. Thanks and call me with questions.

jm

>>> Sophia Pagoulatos 08/02/06 5:18 PM >>>
I'll be happy to work with you on this.

Sophia
Planning & Development
x8062

>>> John Madrid 8/2/2006 4:53 PM >>>
We are developing an action plan for the charter school projects for Peach Avenue. It will go over land preparations, re-designation of land use for the schools, CUP, infrastructure build out and construction processes as well as input from the charter management organization on needed steps from them.

Nick had talked about expediting the CUP process by submitting information then amending it when things become more concrete. I will send out an outline draft of the action plan and am ask each of you to review it and spell out some specifics of the CUP process and other pertinent items. I'm sure there are things that

City of FRESNO

OFFICE OF THE CITY MANAGER

Downtown Education & Charter Schools

Agenda
August 17, 2006

I. Land Re-designation Process - For Charter School - Filton National Forest, need to be re-designation for use for Educational purposes. Request the Dept of Education for the property to be re-designation.

II. Conceptual Plan – Master Plan
CUP to cover Entire site - Jerry said not to include in public / neighborhood meeting.

III. Alternate Plan Process – Portables and Site

IV. MOU

V. Movement Forward

Think - finish CUP masterplan
CUP - done by end of year.

K-8 - Aspire Charter School

Operational Statement
For
Peach Street School Site
Fresno, California

Aspire Public Schools is a privately owned non-profit public benefit corporation which currently operates eighteen public schools in California. Aspire now serves nearly five thousand students in grades K through 12. Fifteen of its schools are located in Northern California that include the Bay area and the Central Valley between Ceres and Sacramento. The remaining schools are located in Huntington Park.

Aspire's program is a "College For Certain' model that is designed to educate and guide a student towards admission and success into a four-year college program.

Fresno is a metropolitan area that Aspire is determining the feasibility of establishing a K-8 program. Given the area's demographics and school performance data, Fresno is an ideal community for Aspire to serve.

The Proposed School Facility

Approximately 10 acres of a total 50 acre site is being provided on Peach Avenue by the City of Fresno to build a K-8 school facility and a 9-13 school facility. The K-8 facility will be designed and built by Aspire and the 9-13 facility will be designed and built by Envision Schools.

The K-8 facility will comprise approximately 52,000 square feet including 20 classrooms a library, counseling offices, administrative office and a multi-purpose room of approximately 6,000 square feet that will accommodate 600 seats. The multi-purpose room will serve as a school assembly venue, dining hall, venue for performing arts presentations and a community meeting hall.

A school play yard will be provided and divided into zones for grades K-1 only, grades 2-5 only and grades 6-8 only. The yard will be lighted during the night time hours to provide safety and security to the campus. It is anticipated that the school yard will be utilized primarily by students during school hours given the fact a public park will be created that will include green space, basketball courts, and fields for baseball and soccer.

Student and Staff Population

At capacity, the staff will consist of 20 teachers, 2 counselors, and an administrative staff of 3. The facility will accommodate approximately 540 students with 28 students per classroom. Classes begin at 8:15 a.m. and terminate at 3:15 p.m. daily. Faculty and staff members generally arrive between the hours of 7:00 a.m. and depart no later than 6:00 p.m.

Transportation and Deliveries

Aspire itself does not provide bus transportation. As is typical in all of Aspire's campuses, if transportation is required, the local school district provides bus service on a fee-for-service basis. The campus design would allow for bus access and a student drop-off area. When bus service is not available, parents are responsible for the transportation of their child. Given the proximity of neighborhood homes to the campus a large percentage of students will be within walking distance of the school.

The campus will provide an isolated area for trash pickup, the delivery of supplies, food and other bulk items.

Envision Schools
Fresno Campus

Operational Statement

Scope of Construction

Envision Schools proposes to design and construct a 50,000 square foot high school occupying a 3-5 acre parcel on the City of Fresno's Peach Avenue Complex.

Parking will be provided on the parcel to accommodate the adult and student population that will work and attend the school.

Target Population

Schools in the Envision Schools network engage diverse student bodies, especially First Generation College Bound (FGCB) students, in rigorous academic work resulting in college admission and success in life.

Scope of Program

All Envision Schools employ an instructional model based on project-based learning, a personalized learning environment, and workplace learning. Arts and digital technology are integrated across all content areas as tools for understanding and expression. All Envision graduates complete the coursework requirements for entrance into the University of California and California State University systems.

Grades Served

An Envision School serves students in grades 9-13. Students are grouped in grades 9/10 and grades 11/12 teams. Each school will have approximately 30 13th graders.

Number of Students

At full build out, the maximum enrollment of the school will be 500 students. The school will start with 125 9th graders and will gain 125 new students each year as new grades are added.

Number of Staff

At full build out, the maximum number of staff at the school will be 32. The school will start with approximately 8 staff in year 1 to serve the inaugural class and will gain approximately 8 new staff members each fall as new grades are added.

Number of Classrooms

At an Envision School, there is a 1:1 ratio of teachers to classrooms. Only in extenuating circumstances are teachers asked to share a classroom with another teacher.

As a result, at full build out, the maximum number of classrooms needed is 24. In year 1, there will be approximately 6 classrooms. The school will require 6 new classrooms each year as new grades are added.

Multi-Purpose Room

There are no immediate plans for an auditorium. However, the entire school community generally meets 2x a week. As a result, the architectural plan will include plans for a multi-purpose room that will be used as a community meeting, performing arts, and school commons space. The approximate space requirements for this multi-purpose room are 6,000 sq. ft.

Hours of Operation

The Envision Schools school day runs from 8am - 4pm, Monday-Friday. At present, there is no substantial weekend or evening component to the program. Faculty, staff, and students generally arrive for work no earlier than 7am and leave no later than 7pm.

Transportation

In our Bay Area cluster, Envision Schools does not purchase bus services from the districts we work with nor do we provide busing ourselves. In Fresno, we anticipate students and parents will be responsible for their own transportation. As such, we do not anticipate a need for buses or bus circulation on site.

Supply Deliveries

To date, Envision Schools does not prepare school lunches on site. Therefore, architectural plans will not include plans for a full kitchen and we do not anticipate daily food deliveries. Large items such as school furniture (desks, tables, chairs, etc.) are generally received only occasionally at the beginning and end of the academic year. On a regular basis, the only anticipated deliveries will be for office supplies.

City of FRESNO

OFFICE OF THE CITY MANAGER

Charter School Development Meeting

Agenda
July 20, 2006

- Envision
- Aspire
- 1998 -
  - Modesto
  - LA
  - Oakland
  - $60 million

} Charter School

Prop. 47 + 55

I. Brief Background

II. Update on City Meetings

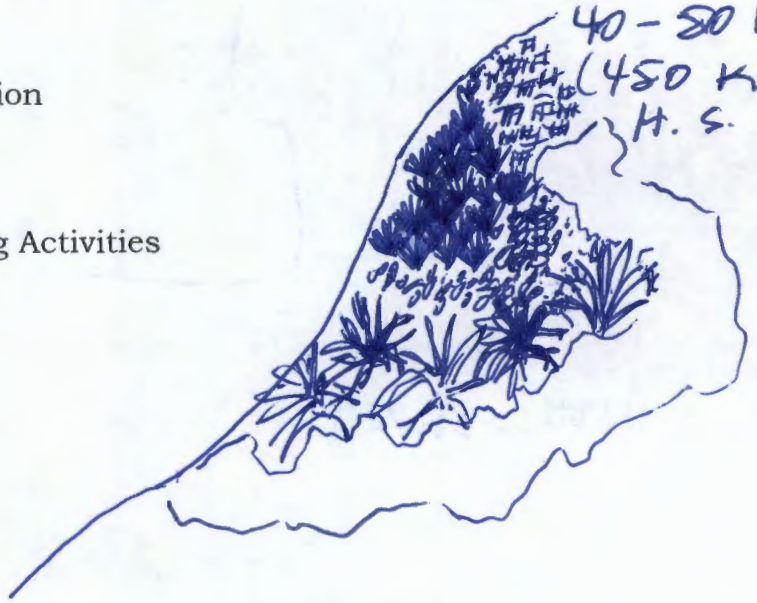
III. Peach Property & Charter School Development Progress

K-5
28-30,000 ft²
K-8 = 40 K ft²

IV. Land Re-designation Process (Peach Property)

40 - 80 K ft²
(450 kid)
H. S.

V. FUSD Meeting Preparation



VI. Coordination of Ongoing Activities

Planning?

Peach Ave. USDA

City acquired 50 acres -

- Space land redesignated for School use.
- Local arch. to design master plan

S. end of 50 acres - park

20 acres N. off RR is a learning Center.

Rocks is K-5
(expand to K-8) } special learning Center

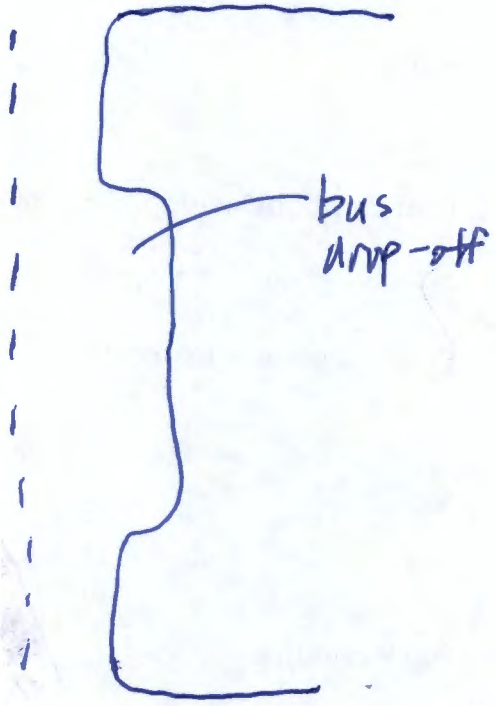
Nick requested site plan.

LEARNING CENTER

4½ acres. (K-5)

5½ acres (K-8)

6



30 spaces - teachers employees.

Wilson

10-month

North end -

City of FRESNO

PUBLIC UTILITY
APPLICATION FOR STREET WORK PERMIT

ALL WORK SHALL COMPLY WITH THE CITY OF FRESNO PUBLIC WORKS DEPARTMENT SPECIFICATIONS

Job Address: 2155 S Peach Av

Job Description: Place Man Hole & Service Area Interface

Utility Company: SBC

Address: 100 W Ashlan | City: Clovis | Zip: 93612

By: Edward A Aguirre (Authorized Signature) | Date: ~~11-01-05~~ 11-01-05 | Phone: 559-454-3848

DIAGRAM OF WORK REQUIRED (INDICATE NORTH AND SHOW THE EXISTING AND NEW WORK)

(see drawing)

2005-213

Total Inspection Fees: 170.00 *OPEN CUT* _____ *BORE* _____

BY: _____ *DATE:* _____

Reviewed By: _____ *TRAFFIC CONTROL REQUIREMENTS*

Standard Requirements _____

Public Works Engineering: _____ *Special Requirements, See Attached* _____

NOTICE TO CONTRACTORS

THIS PERMIT IS NOT VALID UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE PUBLIC WORKS DIRECTOR. THIS APPLICATION MUST BE RECEIVED AND REVIEWED BY THE CONSTRUCTION MANAGEMENT DIVISION AT 1919 EAST McKINLEY AVENUE PRIOR TO APPROVAL. ANY WORK DONE PRIOR TO APPROVAL IS SUBJECT TO IMMEDIATE REJECTION. ALL INSPECTIONS AND/OR JOB MEETINGS SHALL BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE BY CALLING THE CONSTRUCTION MANAGEMENT DIVISION AT 498-1451. HAVE A REPRESENTATIVE AT THE JOB SITE AT THE SCHEDULED TIME.

Contractor: | License Number:

Address | City: | Zip:

By: (Authorized Signature) | Date: | Phone:

Inspector Dustin S. Stone *Workmans Comp* _____

Date Checked 11-9-05 *Liability Insurance &* _____

Staked Requested: *Performance Bond* _____

Party Chief or Eng:

Work to be done by Street Dept.:

Verified by *Date*

Inspectors Remarks: PLEASE CALL CITY INSPECTOR @ 974 6794 WHEN THE JOB IS COMPLETE

RECEIVED
NOV 03 2005
PUBLIC WORKS CONSTRUCTION MANAGEMENT DIVISION

Accepted by _____ *Date* 11/6/05 V.P.

Permission is hereby granted to the above applicant to do the above described work in compliance with Art. 2, Chapter II of the Fresno Municipal Code.

PUBLIC WORKS DIRECTOR

By _____ *Date* 11-10-5

ROUTING:

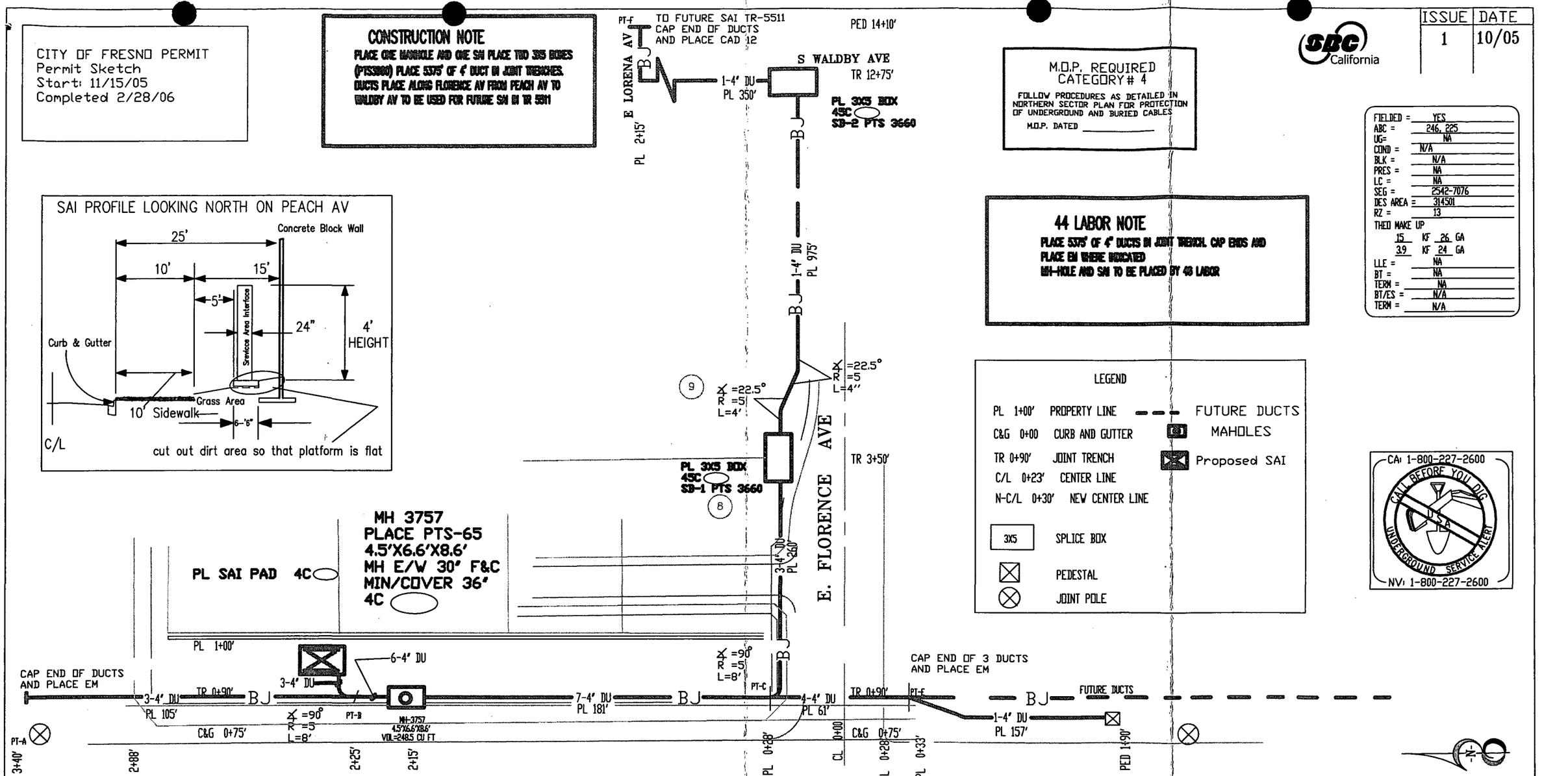
(1) P.W. ENGR.
(2) UTILITY CO
(3) Construction Mgmt. - Applicant

FF-6 (08/97)

CITY OF FRESNO PERMIT
Permit Sketch
Start: 11/15/05
Completed 2/28/06

CONSTRUCTION NOTE
PLACE ONE MANHOLE AND ONE SAI PLACE TWO 3X5 BOXES (PTS3660) PLACE 5375' OF 4" DUCT IN JOINT TRENCHES. DUCTS PLACE ALONG FLORENCE AV FROM PEACH AV TO WALDBY AV TO BE USED FOR FUTURE SAI IN TR 5511

SAI PROFILE LOOKING NORTH ON PEACH AV



PT-A TO PT-B
PL 115' 3-4" CPC DU
PM 115' 3 DU
4C

PT-B TO MH3757
PL 10' 6-4" CPC DU
PM 10' 6 DU
4C

PT-B TO SAI
PL 20' 3-4" CPC DU
PM 20' 3 DU
4C

MH-3757 TO PT-C
PL 181' 7-4" CPC DU
PM 181' 7 DU
4C

PT-C TO PT-E
PL 61' 4-4" CPC DU
PM 61' 4 DU
4C

PT-E TO PED
PL 157' 1-4" CPC DU
PM 157' 1 DU
4C

PT-C TO SB-1
PL 260' 3-4" CPC DU
PM 260' 3 DU
4C

SB-1 TO SB-2
PL 975' 1-4" CPC DU
PM 975' 1 DU
4C

SB-1 TO PT-F
PL 350' 1-4" CPC DU
PM 350' 1 DU
4C

M.O.P. REQUIRED
CATEGORY# 4
FOLLOW PROCEDURES AS DETAILED IN NORTHERN SECTOR PLAN FOR PROTECTION OF UNDERGROUND AND BURIED CABLES
M.O.P. DATED _____

44 LABOR NOTE
PLACE 5375' OF 4" DUCTS IN JOINT TRENCH. CAP ENDS AND PLACE EM WHERE INDICATED
MH-HOLE AND SAI TO BE PLACED BY 44 LABOR

LEGEND

PL 1+00'	PROPERTY LINE		FUTURE DUCTS
C&G 0+00	CURB AND GUTTER		MAHOLES
TR 0+90'	JOINT TRENCH		Proposed SAI
C/L 0+23'	CENTER LINE		
N-C/L 0+30'	NEW CENTER LINE		
3X5	SPLICE BOX		
	PEDESTAL		
	JOINT POLE		

SBC California

ISSUE	DATE
1	10/05

FIELDED =	YES
ABC =	246, 225
UG=	NA
COND =	N/A
BLK =	N/A
PRES =	NA
LC =	NA
SEG =	2542-7076
DES AREA =	314501
RZ =	13
THEO MAKE UP	
15	KF 26 GA
3.9	KF 24 GA
LLE =	NA
BT =	NA
TERM =	NA
BT/ES =	N/A
TERM =	N/A

CA: 1-800-227-2600
NV: 1-800-227-2600

CONST. ARC	DATE COMP.
GEO/CO	SB35
EXCH	CLINTON
ENG'R	ED SIQUEIROS TEL. 454-3848
ENG'R ARC	VOSDEOBJO
TYPE OF CONST.	SUBDIVISON TR 5235
RO/EST No.	5499075
DWG	PERMIT DESIGN 1

National Flood Hazard Layer FIRMette

FEMA

119°43'17"W 36°43'32"N



119°42'39"W 36°43'3"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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
- 513 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 11/30/2020 at 7:32 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.

History of the location as seen from a plant breeder's perspective – by Dr. Craig Ledbetter

Origin of the ARS station

Our location's beginnings started in southeast Fresno, near the corner of Peach & Butler Avenues. That location, known as the 'Peach Avenue Station,' began functioning in 1916. The Peach Avenue Station actually came about through the collective actions of California grape growers back in the early years of the 20th Century. At that time, immigrants were arriving in the San Joaquin Valley and beginning to set up farming operations throughout the region. In many cases, the immigrants brought with them varieties of grapes from their home country, as there were many fewer laws at that time restricting the movement of plant materials around the world. This led to some confusion amongst newly arrived producers, as there were hundreds of varieties of grapes in circulation throughout the San Joaquin Valley, and recommendations were few, and perhaps biased, regarding those varieties best suited for any particular end use.

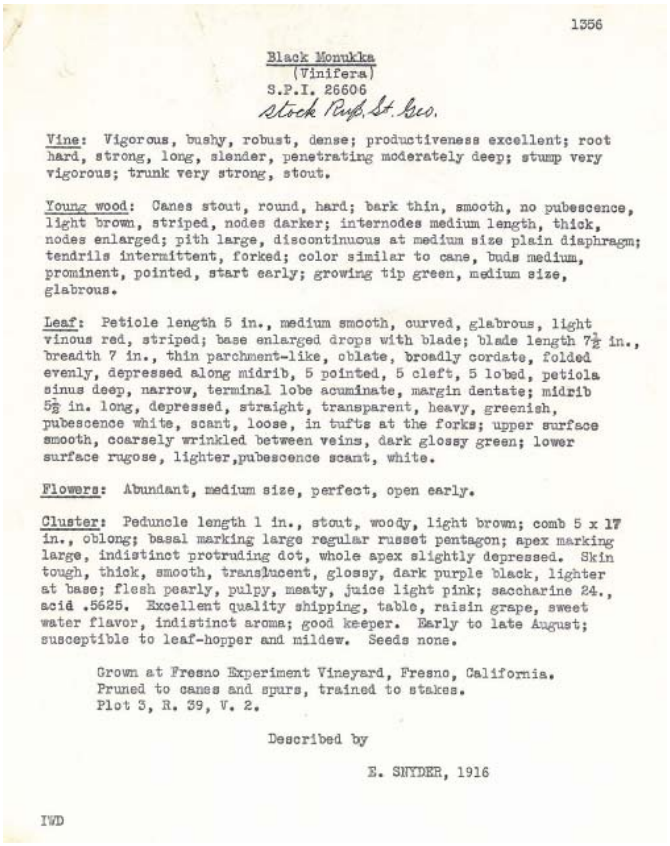
Unbiased recommendations of the best varieties to be grown for table grapes, raisins and wine were desired by California grape growers, and vineyard land was provided to the Federal government by a consolidation of grape growers for that purpose. The donated 20 acre parcel was located southeast of Fresno, a location perfectly suited for varietal evaluation and comparison.

When the Peach Avenue Station was established, the Agricultural Research Service was not yet in existence. At that time, the 20 acre property was known as the USDA Experiment Vineyard, and was a part of the Bureau of Plant Industry (Fig. 1). Coming from Cornell University, Dr. Elmer Snyder arrived in Fresno in 1916 to manage the grape evaluation effort. Grape evaluations began immediately, with numerous formal evaluations occurring during the 1916 harvest year (Fig. 2). The USDA Experiment Vineyard remained solely a vineyard site without any sort of permanent buildings until 1927 when pump and implement sheds were built on the property.

There were numerous early publications by Dr. Snyder and his assistant Frank Harmon detailing the best existing grape varieties for table, raisin, and other purposes. But both Snyder and Harmon were



Fig. 1 Experimental vineyard established southeast of Fresno, CA, in 1916 for evaluating grape germplasm.



1356

Black Monukka
(Vinifera)
S.P.I. 26606
Stock Purch. St. Geo.

Vine: Vigorous, bushy, robust, dense; productiveness excellent; root hard, strong, long, slender, penetrating moderately deep; stump very vigorous; trunk very strong, stout.

Young wood: Canes stout, round, hard; bark thin, smooth, no pubescence, light brown, striped, nodes darker; internodes medium length, thick, nodes enlarged; pith large, discontinuous at medium size plain diaphragm; tendrils intermittent, forked; color similar to cane, buds medium, prominent, pointed, start early; growing tip green, medium size, glabrous.

Leaf: Petiole length 5 in., medium smooth, curved, glabrous, light vinous red, striped; base enlarged drops with blade; blade length 7⅞ in., breadth 7 in., thin parchment-like, oblate, broadly cordate, folded evenly, depressed along midrib, 5 pointed, 5 cleft, 5 lobed, petiole sinus deep, narrow, terminal lobe acuminate, margin dentate; midrib 5⅞ in. long, depressed, straight, transparent, heavy, greenish, pubescence white, scant, loose, in tufts at the forks; upper surface smooth, coarsely wrinkled between veins, dark glossy green; lower surface rugose, lighter, pubescence scant, white.

Flowers: Abundant, medium size, perfect, open early.

Cluster: Peduncle length 1 in., stout, woody, light brown; comb 5 x 17 in., oblong; basal marking large regular russet pentagon; apex marking large, indistinct protruding dot, whole apex slightly depressed. Skin tough, thick, smooth, translucent, glossy, dark purple black, lighter at base; flesh pearly, pulpy, meaty, juice light pink; saccharine 24., acid .5625. Excellent quality shipping, table, raisin grape, sweet water flavor, indistinct aroma; good keeper. Early to late August; susceptible to leaf-hopper and mildew. Seeds none.

Grown at Fresno Experiment Vineyard, Fresno, California.
Pruned to canes and spurs, trained to stakes.
Plot 3, R. 39, V. 2.

Described by

E. SNYDER, 1916

IWD

Fig. 2 Formal evaluation of *Vitis vinifera* L. 'Black Monukka' by Elmer Snyder at the Fresno Experiment Vineyard, 1916.

trained plant breeders, and the first grape hybridizations were made in Fresno during the 1923 bloom, initiating the grape breeding efforts at Fresno. In 1946, those hybridization efforts came to fruition, and a first table grape cultivar was named and released ('Cardinal') from the grape breeding efforts at the Peach Avenue Station.

Early developments in grape evaluation and breeding

In the 1930s, buildings began to spring up at the Experiment Vineyard. The annual grape hybridizations coupled with the ongoing varietal evaluation meant that there were plenty of grapes to evaluate, and lab and office spaces were needed. By today's standards, the first lab was rudimentary, but it served its purpose for basic fruit chemistry and physical evaluations (Fig. 3).

With new lab and office spaces, the Peach Avenue Station became productive in research on a variety of topics related to grape production. Snyder and Harmon published numerous research articles on various cultural practices affecting grape quality and methods of effective grape propagation. The elusive character of seedlessness was also examined in detail, as this character was of great importance to breeding, even in the mid-20th century. Between 1923 and 1951, nearly 46,000 grape seedlings were produced from planned hybridizations in the quest for new seedless cultivars. When seeded x seedless crosses were performed, a 13.5% seedless progeny was realized overall, but specific results varied widely depending on the parental choices.

Besides 'Cardinal,' Snyder and Harmon were also responsible for the development of table grape cultivars 'Calmeria' (1950) and 'Blackrose' (1951). These cultivars provided consumers at that time with table grapes that ripened earlier ('Cardinal') or later ('Calmeria'), or had better color and flesh crispness ('Blackrose') than the existing cultivars of the time.



Fig. 3 Early laboratory setting for grape evaluations at Peach Avenue Station, Fresno, CA

Addition of other research groups

Some of the buildings at the Peach Avenue Station were constructed by the Public Works Administration, a make-work agency set-up during the great depression for the unemployed. Prior to the actual construction at the location, a brick-making operation was initiated to produce the construction materials (Fig. 4). The Market Quality Research building was constructed with PWA manpower and was finished in 1933. This building provided research and office space necessary for the developing Market Quality Research program that had been previously housed at Fresno State College. At that time, research focused primarily on sulfur dioxide fumigation and other means of reducing table grape spoilage in route to market. By the mid-1930s, Market Quality research was running smoothly at the Peach Avenue Station.

The need to reduce spoilage of foods in transit was a lesson emphasized throughout World War II, and the Market Quality Research group expanded during the 1950s. Personnel with expertise in controlled atmospheres and fruit/vegetable respiration were added to staff. Buildings were enlarged to account for the new personnel and research.

History of the location as seen from a plant breeder's perspective – by Dr. Craig Ledbetter

Market Quality Research was comprised of two Sections: Stored Product Insects and Quality Maintenance and Improvements. Stored product entomologists began joining the staff at the Peach Avenue Station in the mid-1960s. Permanent facilities for the entomologists were never planned, and research was conducted in a series of double-wide trailers that were wheeled into the site.



Fig. 4 Brickmaking by Public Works Administration for construction of federal buildings at the Peach Avenue Station site in the late 1920s.

In 1972, a further shuffling of Sections and Departments led to the initial organization of the Agricultural Research Service. The Peach Avenue Station became the Area Headquarters for the then California-Hawaii-Nevada Region. It was an important location and home to six labs in the Fresno area: Market Quality, Stored Product Insects, Transportation and Packaging, Fruit & Nut Crops, Insects Affecting Man & Animals, and Water Recharge. The Water Recharge group was the final group of researchers to make the Peach Avenue Station their home, moving from the Fresno Air Terminal in 1985 and being renamed Water Management.

Addition of stone fruit breeding to the Peach Avenue Station

California was changing quickly and dramatically in the 1950s. Many people were moving to California for the opportunities offered there. Housing needs for the new arrivals dictated the removal of once productive orchards as cities and suburbs expanded into agricultural lands. The San Joaquin Valley was not yet ripe for human growth and was viewed at the time as a new haven for orchards. But while the San Joaquin Valley offered vast and richly productive agricultural lands, the environment was sufficiently different such that once-productive varieties would no longer perform in the different environment. The new growing region necessitated new variety development.

Dr. John Weinberger came to the Peach Avenue Station in 1955 to manage the grape breeding program. But he was perhaps chosen for the position due to his reputation as an effective peach breeder in Fort Valley, GA, and the new need for peach variety development in the San Joaquin Valley.

Dr. Weinberger did bring his peach breeding expertise with him to Fresno, and began hybridizations in peach, plum and apricot during the 1956 bloom period. At that same time, an effective muscadine grape breeder named Horace Loomis from Meridian, MS, was brought to Fresno to assist Dr. Weinberger. Together, they made controlled crosses in both stone fruits and grapes and were responsible for evaluating and releasing several dozen new varieties.

Development of new stone fruit varieties at the Peach Avenue Station followed some basic objectives that are still pertinent to the program today:

- Develop earlier and later maturing varieties as compared with what was existing at the time.
- Emphasize quality characteristics (larger size, higher color, better sugar:acid ratio, firmer flesh)
- Improved resistance/tolerance to insects and fungal diseases
- Rootstock development for resistance to biotic and abiotic stresses

These broad objectives were pertinent to apricot, nectarine, peach and plum. In addition, pit-burn resistance was a major objective for apricot, as the 'Blenheim' variety performed very poorly in the San Joaquin Valley's high summer temperatures. Important stone fruit varietal releases by Weinberger and Loomis include the following:

Cultivar	Year of release	Impact/Importance
Apricot		
Castleton	1963	1st adapted apricot with pit burn resistance
Castlebrite	1977	early maturity, high box packout
Nectarine		
Independence	1965	early maturity, attractiveness, high productivity
Sunfre	1981	adapted for low chill environment
Peach		
Desertgold	1969	adapted for low chill desert areas
Fairtime	1968	late maturity (early October) with heavy yields
Nemaguard	1960	world's most widely planted peach rootstock
Springcrest	1969	very early maturity
Plum		
Friar	1968	high quality, large size, resistance to cracking
Blackamber	1980	large size, high box packout, extend Friar season

Like Snyder and Harmon before them, Weinberger and Loomis were an effective and productive team. They too investigated the seedless trait in grapes, and diversified the table grape and raisin germplasm through wide genetic crosses and germplasm introductions. During their tenure in Fresno, raisin growers were determining that the 'Thompson Seedless' cultivar was just a little too late in

maturity that in some years, early winter rains destroyed the crop as it was drying on the ground. Hence, Weinberger and Loomis began the search for an earlier-maturing raisin grape, and in 1973 introduced the raisin 'Fiesta.' 'Flame Seedless' was another widely popular introduction in 1973, providing consumers with the first seedless grape with crunchy/crisp flesh. To this day, 'Flame Seedless' is still the most widely planted table grape in California.

Embryo culture comes to the Peach Avenue Station

Both Weinberger and Loomis retired in the mid-1970s after two decades of productive breeding in stone fruit and grapes at the Peach Avenue Station. Immediately thereafter, Dr. David Ramming was hired to manage the breeding program. Dr. Ramming received his training at Rutgers University where he learned the technique of embryo culture in peaches. This technique was used to rescue and germinate small embryos from early ripening peaches that would not have otherwise been viable with typical seed culture. Dr. Ramming modified this technique for grapes and demonstrated that embryos from seedless grapes could be successfully cultured. This proof was needed before actively making seedless x seedless crosses and culturing the small developing embryos. With embryo culture assisted seedless X seedless crosses, a much higher percentage of seedless vines could be realized in the progeny.

Embryo culture has been used routinely since the mid-1980s in both stone fruit and grapes to improve breeding efficiency and rescue embryos that would otherwise abort. While labor intensive, embryo culture has been successfully used for the development of earlier ripening stone fruits ('Mayfire' nectarine, 'Spring Baby' peach) and both table grapes and raisins coming from seedless X seedless culture ('Scarlet Royal,' 'Sweet Scarlet,' and 'Princess' table grapes, 'DOVine,' and 'Sunpreme' raisin grapes).

Possible growth of the Peach Avenue Station

The Peach Avenue Station started out as a grape evaluation site, but slowly grew into an important breeding and postharvest quality center with a diversity of research projects. Office and laboratory space in the old buildings was completely full, and newer personnel had to make-do with 'temporary' space in trailers. And while the Station grew, the city of Fresno was growing as well. Located outside of and to the southeast of Fresno in 1916, the Peach Avenue Station had been surrounded by Fresno by the mid-1980s. Agricultural spraying of crop care products has never been a practice that nearby homeowners want to witness. And as urban density increased around the Station, complaint calls about agricultural sprays from unhappy nearby homeowners similarly increased.

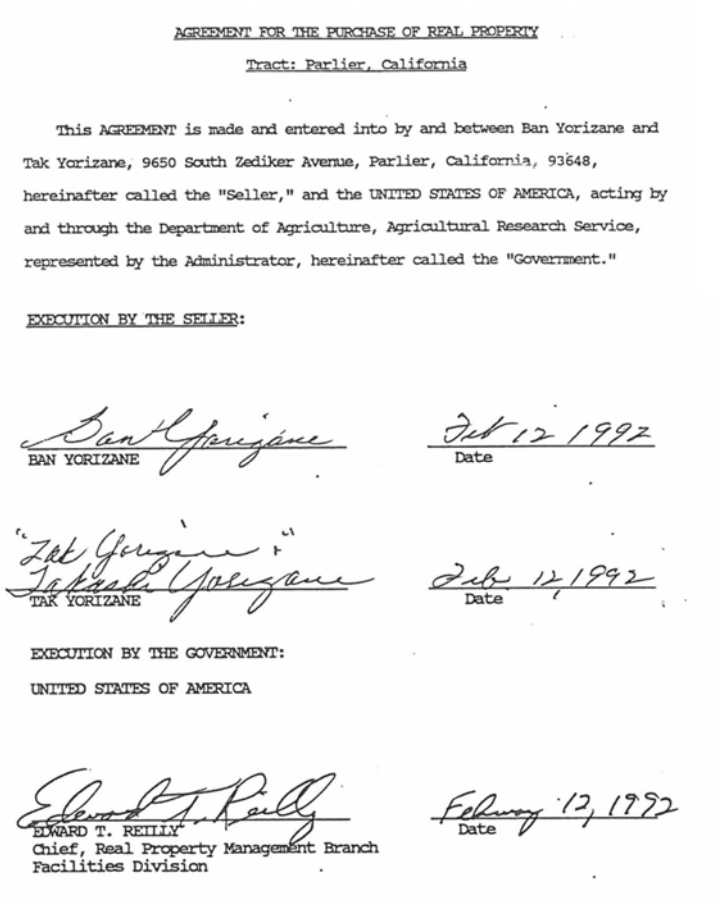
In 1989 there was official discussion of acquiring 30 acres of vacant land to the south of the Peach Avenue Station and constructing a new laboratory center. Headquarters was onboard with the idea, and initial architectural sketches were made. The 30-acre parcel was acquired and improvements to the plot areas were begun immediately. The breeding program planted nursery stock for evaluation during the 1990 dormant season and with that effort, the property was officially in use.

Unfortunately, Fresno had grown sufficiently in the southeast region that a new public school would be needed there for the local pupils. It was soon discovered that a new K-7 public school was being constructed just a half-mile south of the Station. This was somewhat of a final straw, and all parties knew that there would undoubtedly be continuous future difficulties with operating a center for agricultural research in such close proximity with schoolchildren. With that, plans for a new center at Peach Avenue were scrapped and other more suitable locations in the surrounding area were sought.

New property acquired in Parlier

Ban and Tac Yorizane were interested in the prospect of selling their agricultural property to the federal government. They were well established stone fruit and grape producers with an operation just outside Parlier, CA, and had been thinking it was time to retire from farming. Several local ARS personnel toured the property with the Yorizane brothers to learn about the farming history and examine the suitability of the location. Their farming operation consisted of 120 contiguous acres and two agricultural wells. Both soil and water quality were deemed adequate and plans were made for a property sale. The Parlier location became US government property formally on 12 February 1992 (Fig. 5), almost a full ten years prior to the official opening of the San Joaquin Valley Agricultural Research Center. Trees from the breeding program were first established at the Parlier location on 27 February 1992 (Fig. 6).

Development of the Parlier land began slowly. By contract, the Yorizane brothers were allowed to continue farming some of the property for several years as ARS began to develop other portions. It was not until 31 October 1995 that ARS finally took control of all property. At that point, Parlier was really just a field site as there were no offices or lab facilities. While it was a bit inconvenient, Peach Avenue personnel were relieved to know that change was going to happen and a site with abundant land, water, and permanent facilities for all personnel would eventually be prepared and ready for occupancy.



AGREEMENT FOR THE PURCHASE OF REAL PROPERTY

Tract: Parlier, California

This AGREEMENT is made and entered into by and between Ban Yorizane and Tak Yorizane, 9650 South Zediker Avenue, Parlier, California, 93648, hereinafter called the "Seller," and the UNITED STATES OF AMERICA, acting by and through the Department of Agriculture, Agricultural Research Service, represented by the Administrator, hereinafter called the "Government."

EXECUTION BY THE SELLER:

BAN YORIZANE — Date

TAK YORIZANE — Date

EXECUTION BY THE GOVERNMENT:

UNITED STATES OF AMERICA

EDWARD T. REILLY
Chief, Real Property Management Branch
Facilities Division — Date

Fig. 5 Signing parties and agreement for sale of land in Parlier, CA, for establishment of the San Joaquin Valley Agricultural Sciences Center.



Fig. 6 First planting of nursery stock at the site of the San Joaquin Valley Agricultural Sciences Center. 27 February 1992.

Groundbreaking for the new Parlier facility occurred in the spring of 1998. A variety of ARS administrators, Parlier city officials, and area politicians participated in the event (Fig. 7). Construction commenced soon thereafter, but the new San Joaquin Valley Agricultural Sciences Center was not ready for dedication until the fall of 2000. Peach Avenue Station personnel began organizing their labs, offices, and farming equipment for the move while the finishing touches were being added the Parlier facility. The actual physical move from Fresno to Parlier took place in October 2001.



Fig. 7 Groundbreaking for the new San Joaquin Valley Agricultural Sciences Center, Spring 1998.

Environmental Lien Search Report
E L S

Security First Title Resource
Residential - Commercial - Environmental

Prepared For
Wallace – Kuhl & Associates
3050 Industrial Boulevard, West Sacramento, CA 95691

Project Name
Southeast Fresno Regional Park Property

December 10, 2020

Security First Title Resource
Residential - Commercial - Environmental

14115 Lincoln Avenue N.E., #500 – Minneapolis, MN 55304
Tel.: (866) 288-0829 - Fax (866) 343-2388
Info@SecurityFirstTitleResource.com - www.securityfirsttitleresource.net
Celebrating 33 years in business.

The Environmental Lien Search Report (ELS) provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering control and institutional controls.
Our in house professional abstractors / title examiners, following established procedure, use client supplied property data, such as property address, map, parcel number etc. to search for:

- parcel information and / or legal description
- search for ownership information
- research official recorded land title documents
- provide a copy of the deed
- search for environmental encumbering instrument (s) associated with the deed
- provide a copy of any environmental encumbrance (s) based upon a review of key words in the Instrument (s) (title, parties involved, and description).

Below is the property data information and Environmental Lien Search report of the subject property for a period ending November 20, 2020.

A copy of the current vesting deed is attached hereto and made a part hereof.

CLIENT PROJECT NO.: 12987.01 REPORT DATE: December 10, 2020

SUBJECT PROPERTY: Southeast Fresno Regional Park Property

COUNTY / JURISDICTION: Fresno, California

PROPERTY IDENTIFIER: 481-020-29T, 481-020-30T & 473-030-07T

CURRENT OWNER INFORMATION (Vesting)

Type of Deed: Quit Claim Deed
Title Vested in: City of Fresno, California
Deed dated: 9-18-2016
Deed Recorded: 10-31-2006
Document # 2006-0231382

LEGAL DESCRIPTION: See the current vesting deed attached hereto and made a part hereof.

Disclaimer
This report is neither a guarantee of title, a commitment to insure, nor a policy of title insurance. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHAT SOEVER IN CONNECTION WITH THIS REPORT. Security First Title Resource, specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. Therefore, the company's liability to this report extends only to the fee charged thereof. Copyright 2012 -2017 by Security First Title Resource. All Rights Reserved. Reproduction in any media or format, in whole or in part, of any report, or its affiliates, is prohibited without prior written permission.

Environmental Lien Search

ENVIRONMENTAL LIEN

Environmental Lien: ☐ Found ☒ Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Instrument:

Comments:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: ☒ Found ☐ Not Found

If found:

1st Party:	The United States of America
2nd Party:	The City of Fresno, California
Dated:	9-18-2006
Recorded:	10-31-2006
Document #	2006-0231382
Instrument:	Quit Claim deed
Comments:	See Quit Claim Deed

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9

ORIGINAL

Recording requested by:
City of Fresno
Public Works Department
No fee-Government Code Sections
6103 and 27383

When recorded mail to:
Public Works Department
2600 Fresno Street, Room 4019
Fresno, CA 93721-3623
Attention: Bruce Abbott

APN:473-030-07T
481-020-29T, 30T

FRESNO County Recorder
Robert C. Werner
DOC- 2006-0231382
Tuesday, OCT 31, 2006 09:58:54
Ttl Pd $0.00 Nbr-0002337684
CRR/R2/1-9

SPACE ABOVE THIS LINE FOR RECORDER'S USE

PW-2006-14531

City of Fresno, CA
USDA Horticultural Crops Research
Laboratory (9-A-CA-1578)

QUITCLAIM DEED

THE UNITED STATES OF AMERICA, acting by and through the Secretary of the Interior, acting by and through the Director, National Park Service, under and pursuant to the power and authority contained in the provisions of the Federal Property and Administrative Services Act of 1949 (63 Stat. 337), as amended, and regulations and orders promulgated thereunder (hereinafter designated "Grantor"), for and in consideration of the perpetual use of the hereinafter described premises as and for public park and public recreation area purposes, by the City of Fresno, California (hereinafter designated "Grantee"), does hereby release and quitclaim to Grantee, and to its heirs, successors and assigns, all Grantor's right, title and interest, subject to the reservations, warranties, covenants, conditions, and restrictions declared herein, "as is, where is" in and to four parcels of land containing approximately 47.15 acres and containing a portion of the Northwest Quarter of Section 17 and the Southwest Quarter of Section 8, Township 14 South, Range 21 East, Mount Diablo Base and Meridian as described as follows;

Parcel 1:

That portion of the Northwest Quarter of Section 17, Township 14 South, Range 21 East, Mount Diablo Base and Meridian, described as follows:

Beginning at the Northwest corner of said Section 17; thence Easterly, along the North line of Northwest Quarter a distance of 1,329.5 feet to the Northeast corner of the Northwest quarter of the Northwest Quarter of said Section 17; thence South 0°16' East, along the East line of the Northwest Quarter of the Northwest quarter of said Section 17, a distance of 970.5 feet to the Southeast corner of the land conveyed to E. Pusey Cain by deed recorded March 20, 1934 in Book 1327, Page 437, of Official Records; thence North 89°49' West 908.32 feet, more or less to the Southeast Corner of the land conveyed to Mabel C. Pool by deed recorded February 25, 1946, in Book 2356, Page 268 of Official Records said Point being 426 feet East of the West line of said Section; thence North along the East line of said Pool Land, a distance of 205.4 feet; thence South 89°09' East 347 feet; thence North 0°11' East 324.95 feet; thence North 89°29' West 248 feet; thence North 47°45' West 91 feet; thence North 89°39' West 145 feet; thence North 54°21' West 96 feet; thence North 88°26' West 61.43 feet; thence South 0°01 East 300.63 feet; thence North 89°13' west 174.0 feet to a Point on the West line of said Northwest Quarter of said Section 17; thence North along the west line of

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said Northwest Quarter, a distance of 621.33 feet to the Point of Beginning.

Parcel 2:

That Portion of the Northwest quarter of Section 17, Township 14 South, Range 21 East, Mount Diablo Base and Meridian, described as follows:

Beginning at the Northwest corner of said Section 17; thence South along the West line of said Northwest Quarter, a distance of 621.3 feet to a point, said point being the Northwest corner of the land described in deed to Mabel C. Pool recorded February 25, 1946, in Book 2356, Page 268 of Official Records; thence South 89°13' East along the North line of said Pool land, a distance of 174 feet as the True Point of Beginning; thence South 89°13' East 163 feet; thence South 31°57' East 167.2 feet; thence South 89°09' East 347 feet; thence North 0°11 East, 324.95 feet; thence North 89°29' West 248 feet; thence North 47°45' West 91 feet; thence North 89°39' West 145 feet; thence North 54°21' West 96 feet; thence North 88°26' West 61.43 feet; thence South 0°01' East 300.63 feet, more or less, to the True Point of Beginning.

Parcel 3:

That Portion of Section 17, Township 14 South, Range 21 East, Mount Diablo Base and Meridian, described as follows:

The West 426 feet of the North 310.44 feet of the South half of the Northwest quarter of the Northwest quarter of Section 17, Township 14 South, Range 21 East.

Together with the following described parcel: Commencing at the Northwest corner of the South half of the Northwest quarter of the Northwest quarter of said Section 17; thence Easterly, along the North line of the said South half of the Northwest quarter of the Northwest quarter of said section; 426 feet to a point; thence Northerly, Parallel with and 426 feet Easterly from the West line of said Northwest Quarter, a distance of 35.56 feet, to a point, thence Westerly 426 feet to a point on the West line of said Northwest Quarter which is 38.96 feet Northerly from the Point of Commencement; thence Southerly along the West line of said Northwest Quarter, a distance of 38.96 feet to the Point of Commencement.

Excepting therefrom the following described property:

Beginning at a point which is South 89°13' East 337.0 feet and 621.3 feet South from the Northwest corner of Said Section 17; thence South 31°57' East 167.2 feet to a point on the East line of the land conveyed to Mabel C. Pool by deed recorded February 25, 1946, in Book 2356, Page 268 of Official Records; thence North along the East line of said Pool land, a distance of 140.6 feet to the Northeast Corner thereof, thence North 89°13' West 89.6 feet to the Point of Beginning.

Parcel 4:

Commencing at the Southwest corner of Section 8, Township 14 South, Range 21 East Mount Diablo Base and Meridian, in the city of Fresno, County of Fresno, State of California, which Point is Further Designated as Being on the South Line of Malvoisie Avenue, as such Avenue is delineated on the Map of Easterby Rancho on file and of Record in Book 2 of Plats at Page 6 in the Office of the County Recorder of the County of Fresno, State of California; thence North 660.0 feet along the West line of said Section 8 to a point; thence North 89°16' East, 1,320 feet Parallel with the South line of said Section 8 to a point; thence South parallel with the West line of said Section 8, 660.0 feet to a point on the South line of said Section 8, which is also the South line of the said

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Malvoisie Avenue; thence South 89°16 West 1320 feet along the South line of Section 8 (the South line of Malvoisie Avenue) to the point of Commencement; said land being a portion of Lot 124 of Easterby Rancho, as shown on the Map thereof recorded June 24, 1880, in Book 2, Page 6, of Plats in the Office of the County Recorder of Fresno County.

The hereinbefore described property is granted by the Grantor to the Grantee subject to any and all existing easements for streets, utility systems, rights-of-way, railroads, pipelines, sewer lines, conduits, flumes, ditches, and canals. The Grantor expressly reserves all oil, gas and mineral rights to the United States.

The Grantee by its acceptance of this deed does acknowledge its understanding of the provisions of this deed, and does covenant and agree for itself, and its heirs, successors and assigns, forever, as follows:

1. This property shall be used and maintained for the public purposes for which it was conveyed in perpetuity as set forth in the program of utilization and plan contained in an amendment to an application submitted by the Grantee dated January 27, 2005, which program and plan may be amended from time to time at the written request of either the Grantor or Grantee, with the written concurrence of the other party, and such amendments will be added to and become a part of the original application.

2. The Grantee shall, within 6 months of the date of the deed of conveyance, erect and maintain a permanent sign or marker near the point of principal access to the conveyed area indicating that the property is a park or recreation area and has been acquired from the Federal Government for use by the general public.

3. The property shall not be sold, leased, assigned or otherwise disposed of except to another eligible governmental agency that the Secretary of the Interior approves in writing. Any such disposition shall assure the continued use and maintenance of the property for public park or public recreational purposes subject to the same terms and conditions in the original instrument of conveyance. Any mortgage, lien, or any other encumbrance not wholly subordinate to the reverter interest of the Grantor shall constitute an impermissible disposal. However this provision shall not preclude the Grantee and its heirs, successors and assigns from using revenue or other bonds related to the use of the property to the extent that such bonds shall not in any way restrict, encumber, or constitute a lien on the property. Furthermore, this provision shall not preclude the Grantee from providing related recreation facilities and services compatible with the approved application though concession agreements, permits, and licenses entered into with third parties, provided prior concurrence to such agreements is obtained in writing from the National Park Service.

4. From the date of this conveyance, the Grantee, its heirs, successors and assigns, shall submit biennial reports to the Secretary of the Interior, setting forth the use made of the property during the preceding two-year period, and other pertinent data establishing its continuous use for the purposes set forth above, for ten consecutive reports and as further determined by the Secretary of the Interior.

5. As part of the consideration for this Deed, the Grantee covenants and agrees for itself, its heirs, successors and assigns, that; (1) any use, operation, program or activity on or related to the property conveyed by this Deed will be conducted in compliance with all Federal laws and regulations relating to nondiscrimination, including but not limited to the following laws and regulations as may be amended from time to time: (a) the regulations of the U.S. Department of the Interior at 43 CFR Part 17, (b) Title VI of the Civil Rights Act of 1964, (c) Title III of the Age Discrimination Act of 1975, (d) Section 504 of the Rehabilitation Act of 1973, and (e) the Architectural Barriers Act of 1968; (2) this covenant shall be subject in all respects to the provisions of said laws and regulations; (3) the Grantee, its heirs,

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successors and assigns, will promptly take and continue to take such action as may be necessary to effectuate this covenant; (4) the United States shall have the right to seek judicial enforcement of this covenant; (5) the Grantee, its heirs, successors and assigns, will (a) obtain from each other person (any legal entity) who, through contractual or other arrangements with the Grantee, its heirs, successors or assigns, is authorized to provide services or benefits on or in connection with the property, a written agreement pursuant to which such other person shall, with respect to the services or benefits which he is authorized to provide, undertake for himself the same obligations as those imposed upon the Grantee, its heirs, successors and assigns, by this covenant, and (b) furnish a copy of such agreement to the Secretary of the Interior or his successor; (6) this covenant shall run with the land hereby conveyed, and shall in any event, without regard to technical classification or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity for the benefit of, and in favor of the Grantor and enforceable by the Grantor against the Grantee, its heirs, successors and assigns; and (7) the Grantor expressly reserves a right of access to, and entrance upon, the above described property in order to determine compliance with the terms of this conveyance.

6. The Grantee, its heirs, successors and assigns, shall indemnify, defend, protect, save and hold harmless the Grantor, its employees, officers, attorneys, agents, and representatives from and against any and all debts, duties, obligations, liabilities, law suits, claims, demands, causes of action, damages, losses, costs, and expenses (including without limitation attorney fees and expenses, consultant fees and expenses, expert fees and court costs) arising out of any claim for personal injury or property damage (including death, illness, or loss of or damage to real or personal property or economic loss) that relates to the Grantee's failure to comply with the terms of this deed or from the use or occupancy of the property by the Grantee and/or the Grantee's successors and assigns, transferees, or agents.

7. In order to provide for the appropriate and orderly improvement of the subject property for park and recreation use the Grantee has proposed as an element of the Program of Utilization to provide for the preparation of a Park Master Plan. The Grantee covenants and agrees to provide for an environmental review of plans and proposals for the improvement of the property in accordance with the requirements of the National Environmental Policy Act and the associated guidelines of the National Park Service in coordination with similar requirements required under the California Environmental Quality Act. The Grantee covenants and agrees to provide for the preparation and submission of environmental analysis and public review as may be required by NPS guidelines prior to the implementation of any element of the program of utilization, or in association with the preparation of the proposed master plan or in the consideration of amendments to the program of utilization proposals submitted for review pursuant to Section 1.

8. Pursuant to Section 120(h)(4) of Comprehensive Environmental Response Compensation and Liability Act (CERCLA)[42 U.S.C. 9620] the United States, by the United States Department of Agriculture, Agricultural Research Service, determined based upon a review of available records no hazardous substances have been released, disposed of or stored for one year or more on said property in accordance with the regulations of the Environmental Protection Agency at 40 CFR, Part 373.

9. Pursuant to CERCLA Section 120(h)(4)(D)(i) the United States, by and through the by the United States Department of Agriculture, Agricultural Research Service covenants and warrants that any response action or corrective action found to be necessary by applicable regulatory authorities after the date of this deed regarding hazardous substances located on the property on the date of conveyance shall be conducted by the United States.

10. Pursuant to CERCLA Section 120(h)(4)(D)(ii) [42 U.S.C. 9620], the Grantor, by the through the United States Department of Agriculture, Agricultural Research Service and its officers, agencies,

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agents, employees, contractors and subcontractors, reserves a right of access to all portions of the property for environmental investigation, remediation, or other corrective action. This reservation includes the right of access to, and use of available utilities at reasonable cost to Grantor, it successors, assigns. These rights shall be exercisable in any case in which a response action, corrective action, or remedial action is found to be necessary after the date of this conveyance or in which access is necessary to carry out a remedial action or response action on adjoining property. Pursuant to this reservation, the United States of America and its respective officers, agencies, agents, employees, contractors and subcontractors shall have the right (upon reasonable advance written notice to the record title owner) to enter upon the property and conduct investigations and surveys, to include drilling, test pitting, borings, data and records compilation, and other activities related to environmental investigation, and to carry out remedial or removal actions required or necessary, including but not limited to installation and operation of monitoring wells, pumping wells, and treatment facilities. Any such entry, including such activities, responses or remedial actions, shall be coordinated with the record title owner and shall be performed in a manner which minimizes interruption with activities of authorized occupants.

11. The Grantee is hereby informed that asbestos containing materials (ACM) are believed to be present on the property. ACM is believed to be present in floor tiles, acoustical hanging ceilings, wallboard, joint tape and taping compound. The Grantee covenants and agrees, on behalf of its heirs, successors and assigns, that in its use and occupancy of the property, it will comply with all Federal, State and local laws relating to asbestos including relevant provisions of the Toxic Substances Control Act; (15 USC § 2641) and related regulations (40 CFR § 763.120-121) and Section 102-75.335 of the Federal Management Regulations (41 CFR § 102-75.335). The Grantor assumes no liability for damages for personal injury, illness, disability or death, to the Grantee, its heirs, successors or assigns, or to any other person, including members of the general public, arising from or incident to the purchase, transportation, removal, handling, use, disposition, or other activity causing or leading to contact of any kind whatsoever with asbestos on the property, whether Grantee, its heirs, successors or assigns have properly warned or failed properly to warn the individual(s) injured.

12. Because selected improvements on the property were constructed prior to 1978, they are assumed to contain lead based paints, presenting an exposure risk to young children and pregnant women. The presence of lead based paints within these structures affects their use for residential purposes, including but not limited to non-dwelling facility use commonly used by children under 6 years of age (i.e. childcare center or playground). In the event buildings containing lead based paints are to be reused or rehabilitated, the Grantee covenants and agrees to take all necessary actions to evaluate and abate lead based paint hazards prior to the use of said buildings. The Grantee further covenants and agrees to adhere with all applicable federal, state, or local laws regarding lead based paint hazards as a part of any demolition or renovation of structures containing lead based paints and prior to occupancy or use of said structures for residential purposes, including non-dwelling facility use commonly used by children under 6 years of age. The Grantee further agrees to indemnify the United States, it agencies and employees from any liability arising by reason of the Grantee's failure to comply with these lead-based paint abatement requirements.

13. The Grantee covenants and agrees that it has inspected the herein described and quitclaimed property and is satisfied that the property is free of any hazardous substances or petroleum products or their derivatives. The Grantee, its heirs, successors and assigns and every successor in interest to all or any part of the property shall indemnify, protect, defend, save, and hold harmless the Grantor, and Grantor's employees, officers, representatives, attorneys and agents, from and against any and all debts, duties, obligations, liabilities, law suits, cost associated with any investigation, monitoring, sampling, testing or removal of hazardous substance(s), claims, demands, causes of action, damages, losses, costs, and expenses (including, without limitation, attorney fees, and expenses and court costs) in any way related

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to, connected with, and/or arising out of discovery of any hazardous substance(s) or petroleum products or their derivatives which may have contaminated the hereinabove conveyed property after the date of this Quitclaim deed, including but not limited to any environmental response action, corrective action or remediation action.

14. The Grantee acknowledges that the said property is located within six nautical miles of a public airport and covenants and agrees to obtain a determination of no hazard to air navigation issued by the Federal Aviation Administration (FAA) in accordance with 14 CFR Part 77, or under the authority of the Federal Aviation Act of 1958, as amended, prior to initiating any construction or alteration on said property.

15. The subject property has been determined to lie within a 100-year floodplain. The Grantee further covenants and agrees to comply with the Clean Water Act, as such may be amended, Executive Order 11990 (May 24, 1977) for Protection of Wetlands, and Executive Order 11988 (May 24, 1977) for Floodplain Management, including compliance with Federal, State, and local wetlands and floodplain regulations, where and to the extent said Act and Executive Orders are applicable to the property herein conveyed, and Grantee shall be subject to any use restrictions issued under said Act and Executive Orders.

16. In the event that there is a breach by the Grantee, its heirs, successors or assigns, of any of the conditions and covenants, whether caused by the legal or other inability of the Grantee, its heirs, successors or assigns, to perform said conditions and covenants, the Grantor will give written notice, with a reasonable time stated therein, that the Grantee shall eliminate, rectify, or cure said breach. Upon failure to eliminate, rectify, or cure said breach within the time set forth in the notice, all right, title, and interest in and to all or any portion of said premises shall, at Grantor's option, revert to and become the property of the Grantor. In addition to all other remedies for such breach, the Grantee, its heirs, successors and assigns, at the Grantor's option, shall forfeit all right, title, and interest in any and all of the tenements, hereditaments, and appurtenances thereunto belonging.

17. The failure of the Grantor to require in any one of more instances complete performance of any of the conditions or covenants shall not be construed as a waiver or relinquishment or such future performance, but obligation of the Grantee, its heirs, successors and assigns, with respect to such future performance shall continue in full force and effect.

18. The National Park Service and any representative it may so delegate shall have the right of entry upon said premises at all reasonable times to conduct inspections of the property for the purposes of evaluating the Grantee's compliance with the terms and conditions of the conveyance.

19. The Grantee, by its acceptance of this deed, covenants and agrees for itself, and its heirs, successors and assigns, that in the event the Grantor exercises its option to revert all right, title, and interest in the property to the Grantor, or the Grantee voluntarily returns title to the property in lieu of a reverter, then the Grantee shall provide protection to and maintenance of said property at all times until such time as the title is actually reverted or returned to and accepted by the Grantor, including the period of any notice of intent to revert. Such protection and maintenance shall, at a minimum, conform to the standards contained in the Federal Property Management Regulations prescribed by the General Services Administration in 41 CFR Part 101-47.4913 in effect as of the date of this deed.

20. The covenants, conditions, and restrictions set forth herein are intended to be covenants running with the land in accordance with all applicable law and shall burden and run with the property conveyance by this deed and every part thereof or interest therein, and shall be binding on Grantee, it successor(s) and assign(s), and every successor in interest to all or any part of the property, and shall benefit Grantor and Grantor's successor(s) and assign(s).

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IN WITNESS WHEREOF, the Grantor has caused these presents to be executed in its name and on its behalf on this the 18 day of September, 2006.

UNITED STATES OF AMERICA
Acting by and through the Secretary of the Interior

By _____
Jonathan B. Jarvis
Regional Director, Pacific West Region
National Park Service

(COUNTY OF ALAMEDA)
) SS.
(STATE OF CALIFORNIA)

On this 18th day of September 2006, before me, the subscriber, personally appeared Jonathan B. Jarvis, to be known and personally known to me to be the Regional Director, Pacific West Region, National Park Service, of the United States of America, acting by and through the Secretary of the Interior, a governmental agency of the United States of America, and known to me to be the same person described in and who executed the foregoing instrument as such Regional Director, Pacific West aforesaid, as the act and deed of the United States, for and on behalf of the Secretary of the Interior, and he acknowledged that he executed the foregoing instrument for and on behalf of the United States of America, for the purposes and uses therein described.

Witness my hand and official seal.

_____
NOTARY PUBLIC

KHAC HOA TRINH
Comm. #1563905
NOTARY PUBLIC-CALIFORNIA
Alameda County
My Comm. Expires March 25, 2009

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The foregoing conveyance is hereby accepted and the undersigned agrees, by this acceptance, to assume and be bound by all the obligations, conditions, covenants and agreements therein contained.

City of Fresno, California

By Andrew T. Souza

Andrew T. Souza

Date 10/27/2006

(COUNTY OF FRESNO)
) SS
(STATE OF CALIFORNIA)

On this 27th day of October, 2006, before me, the undersigned notary, the subscriber, personally appeared and being the duly authorized official of the City of Fresno, California and known to me to be the same person described herein and who executed the foregoing acceptance of said on behalf of the City of Fresno, California, for the purposes and uses therein described.

NRO1 THERESA SALDIVAR
COMM. #1649668
Notary Public - California
Fresno County
My Comm. Expires Apr. 3, 2010 NRO1

Witness my hand and official seal.

Theresa Saldivar

NOTARY PUBLIC

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State of California)
County of Fresno)

On October 27, 2006 (DATE) before me, Theresa Saldivar (NAME),
Notary Public, personally appeared, Andrew T. Souza - (NAME(S) OF SIGNER(S))

☒ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

NRO1 THERESA SALDIVAR COMM. #1649668 Notary Public - California Fresno County My Comm. Expires Apr. 3, 2010 NRO1

WITNESS my hand and official seal

Theresa Saldivar
SIGNATURE OF NOTARY

OPTIONAL SECTION

TOP OF THUMB

☐ INDIVIDUAL(S
☐ CORPORATE OFFICER(S)

TITLE(S)
☐ PARTNERS ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIANSHIP/CONSERVATOR
SIGNER IS REPRESENTING
NAME OF PERSON(S) OR ENTITY(IES)

TOP OF THUMB

FOR CITY OF FRESNO USE ONLY

CERTIFICATE OF ACCEPTANCE (Officer)

In accordance with Section 27281 of the Government Code, this is to certify that the interest in real property conveyed hereby is accepted by the undersigned officers on behalf of the Council of the City of Fresno pursuant to authority conferred by Resolution No. 92-219A of said Council, adopted June 9, 1992 and the grantee consents to the recordation thereof by its duly authorized officer.

Public Works Director
ACCEPTED:

By: Not applicable (DEPUTY) Date: _____

FEE TITLE ACCEPTANCE (Officer)

City Manager

By: See Page 8 (DEPUTY) Date: _____

CERTIFICATE OF ACCEPTANCE (Council)

In accordance with Section 27281 of the Government Code, this is to certify that the interest in real property conveyed by this instrument to the City of Fresno, a municipal corporation, is hereby accepted by order of the Council of the City of Fresno made on the date hereafter set forth and the grantee consents to the recordation thereof by its duly authorized officer.

Item No./Reso. No. 1G

Date of Council Order: October 17, 2006

City Clerk

By: Erika Leyva (DEPUTY) Date: 10/30/06

APPROVED AS TO FORM:

City Attorney

By: _____ (DEPUTY) Date: 9-26-06

RECOMMENDED FOR ACCEPTANCE:

By: Alan James

Title: SUPERVISING ENGR. TECH.

Date: 9/26/06

Log No. 2006-235 Drawing No. N/A

CHECKED:

By: David W Cohen

Title: Land Surveyor

Date: 9-26-06

BB

APPENDIX D

EDR® Radius Map Report with Geocheck

Southeast Fresno Regional Park
2155 South Peach Avenue
Fresno, CA 93727

Inquiry Number: 6281215.2s
November 25, 2020

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

2155 SOUTH PEACH AVENUE
FRESNO, CA 93727

COORDINATES

Latitude (North):	36.7209950 - 36° 43' 15.58''
Longitude (West):	119.7157990 - 119° 42' 56.87''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	257446.9
UTM Y (Meters):	4067158.2
Elevation:	309 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5603192 MALAGA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140619
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
2155 SOUTH PEACH AVENUE
FRESNO, CA 93727

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	USDA ARS	2021 S PEACH AVE	FINDS, ECHO, CUPA Listings	Higher	9, 0.002, NW
A2	USDA AGRICULTURE RES	2021 S PEACH	SWEEPS UST, CA FID UST	Higher	9, 0.002, NW
A3	FRUIT GENETICS & BRE	2021 S PEACH AVE	HIST UST	Higher	9, 0.002, NW
A4	USDA ARS	2021 S PEACH AVE	SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC	Higher	9, 0.002, NW
A5	FRUIT GENETICS AND B	2021 S PEACH AVE	HIST UST	Higher	9, 0.002, NW
6	USDA AGRICULTURE RES	2221 S PEACH	CUPA Listings	Lower	18, 0.003, WSW
7	OHANESIAN PROPERTY	2122 S PEACH AVE	CUPA Listings	Lower	120, 0.023, West
8	U.S.D.A. AGRICULTURE	2021 PEACH	LUST, Cortese, HIST CORTESE, CERS	Higher	150, 0.028, NNW
9	SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	EDR Hist Cleaner	Higher	537, 0.102, NW
10	JESSE DOMINGUEZ	1653 SOUTH KAREN AVE	RCRA NonGen / NLR	Higher	927, 0.176, NNW
11	CHURCH & ORANGEWOOD	SW CORNER OF E. CHUR	ENVIROSTOR, SCH	Lower	2007, 0.380, SSE
12	PLANNED SOUTHEAST SC	SOUTHWEST CORNER OF	ENVIROSTOR, SCH	Lower	2452, 0.464, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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

NPL ---------- National Priority 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 RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

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-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
CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
UST Active UST Facilities
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
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
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
SCH School Property Evaluation Program
CDL Clandestine Drug Labs
Toxic Pits Toxic Pits Cleanup Act Sites
CERS HAZ WASTE CERS HAZ WASTE

US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS	California Environmental Reporting System (CERS) Tanks

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
DOD	Department of 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
ROD	Records Of Decision
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
UXO ---- Unexploded Ordnance Sites
ECHO ---- Enforcement & Compliance History Information
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan
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
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
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)
MINES MRDS ---- Mineral Resources Data System
HWTS ---- Hazardous Waste Tracking 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 RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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 CERCLIS NFRAP site list

SEMS-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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/29/2020 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USDA ARS Site ID: 0903879 EPA Id: CA7120090397	***2021 S PEACH AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A4***	***12***

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/15/2020 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USDA ARS EPA ID:: CA7120090397	***2021 S PEACH AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A4***	***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 07/27/2020 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHURCH & ORANGEWOOD	***SW CORNER OF E. CHUR***	***SSE 1/4 - 1/2 (0.380 mi.)***	***11***	***22***
Facility Id: 60002701				
Status: No Further Action				
PLANNED SOUTHEAST SC	***SOUTHWEST CORNER OF***	***SSW 1/4 - 1/2 (0.464 mi.)***	***12***	***25***
Facility Id: 60002297				
Status: No Further Action				

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 is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S.D.A. AGRICULTURE	***2021 PEACH***	***NNW 0 - 1/8 (0.028 mi.)***	***8***	***17***
Database: LUST REG 5, Date of Government Version: 07/01/2008				
Database: LUST, Date of Government Version: 06/08/2020				
Status: Completed - Case Closed				
Status: Case Closed				
Global Id: T0601900555				

ADDITIONAL ENVIRONMENTAL RECORDS

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
USDA AGRICULTURE RES	***2021 S PEACH***	***NW 0 - 1/8 (0.002 mi.)***	***A2***	***10***
Comp Number: 1004				

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 are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRUIT GENETICS & BRE	2021 S PEACH AVE	NW 0 - 1/8 (0.002 mi.)	A3	11
Facility Id: 00000059014				
FRUIT GENETICS AND B	2021 S PEACH AVE	NW 0 - 1/8 (0.002 mi.)	A5	16

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USDA AGRICULTURE RES	***2021 S PEACH***	***NW 0 - 1/8 (0.002 mi.)***	***A2***	***10***
Facility Id: 10004435				
Status: I				

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 06/15/2020 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JESSE DOMINGUEZ	1653 SOUTH KAREN AVE	NNW 1/8 - 1/4 (0.176 mi.)	10	20
EPA ID:: CAC003012420				

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 06/22/2020 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S.D.A. AGRICULTURE	***2021 PEACH***	***NNW 0 - 1/8 (0.028 mi.)***	***8***	***17***
Cleanup Status: COMPLETED - CASE CLOSED				

CUPA Listings: 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.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 3 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USDA ARS	***2021 S PEACH AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A1***	***9***
Database: CUPA FRESNO, Date of Government Version: 06/30/2020				
Facility Id: FA0170540				

Lower Elevation	Address	Direction / Distance	Map ID	Page
USDA AGRICULTURE RES	2221 S PEACH	WSW 0 - 1/8 (0.003 mi.)	6	16
Database: CUPA FRESNO, Date of Government Version: 06/30/2020				
Facility Id: FA0170542				
OHANESIAN PROPERTY	2122 S PEACH AVE	W 0 - 1/8 (0.023 mi.)	7	17
Database: CUPA FRESNO, Date of Government Version: 06/30/2020				
Facility Id: FA0284615				

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
U.S.D.A. AGRICULTURE	***2021 PEACH***	***NNW 0 - 1/8 (0.028 mi.)***	***8***	***17***
Reg Id: 5T10000572				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EXECUTIVE SUMMARY

EDR Hist Cleaner: 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.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

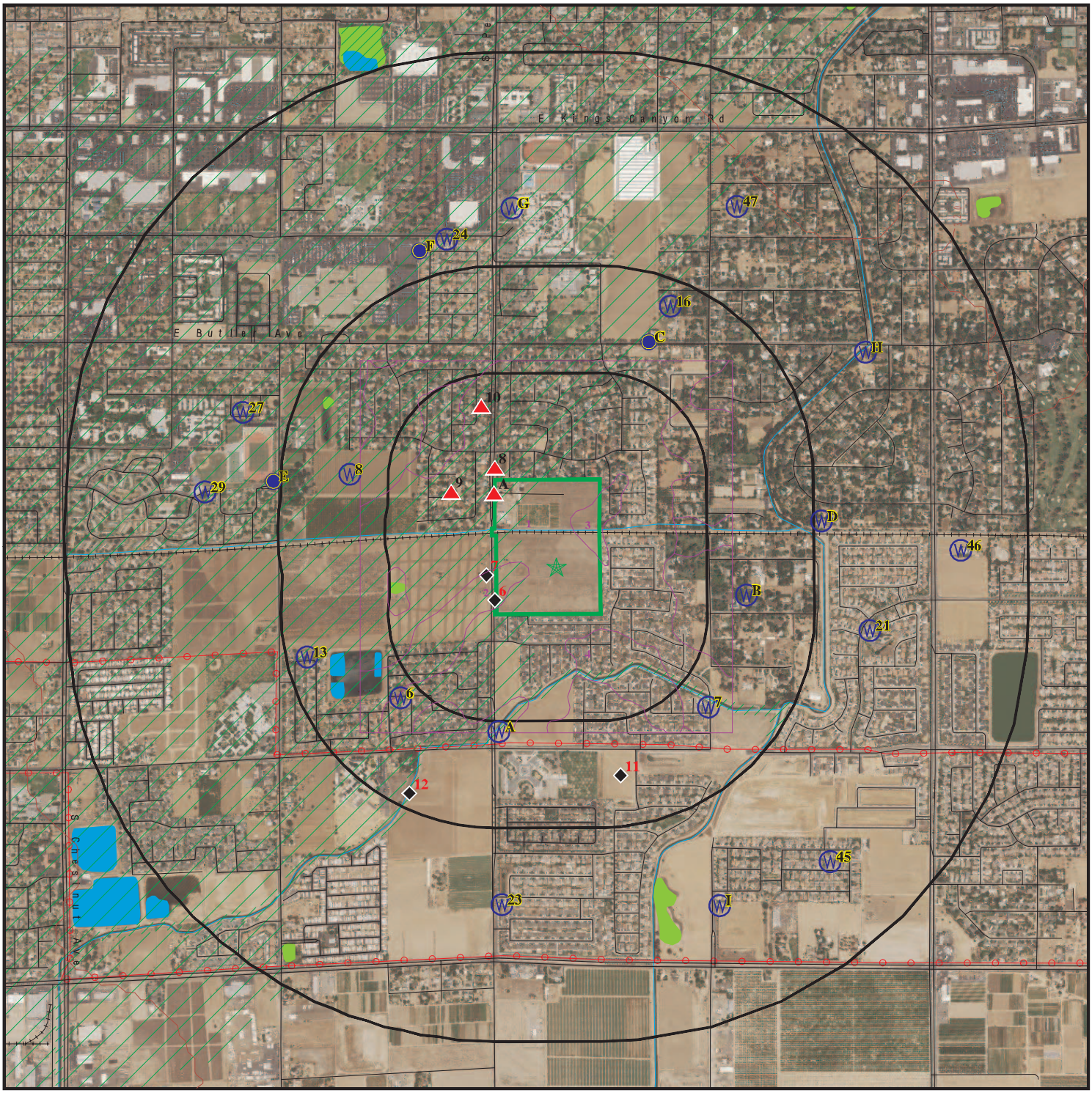
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SERVPRO OF FRESNO SO	5171 E WOODWARD AVE	NW 0 - 1/8 (0.102 mi.)	9	19

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
PACIFIC GAS AND ELECTRIC - FRESNO	CDL
PROPOSED TEMPERANCE ELEMENTARY SCH	CA BOND EXP. PLAN
	ENVIROSTOR, SCH

OVERVIEW MAP - 6281215.2S



0 1/4 1/2 1 Miles

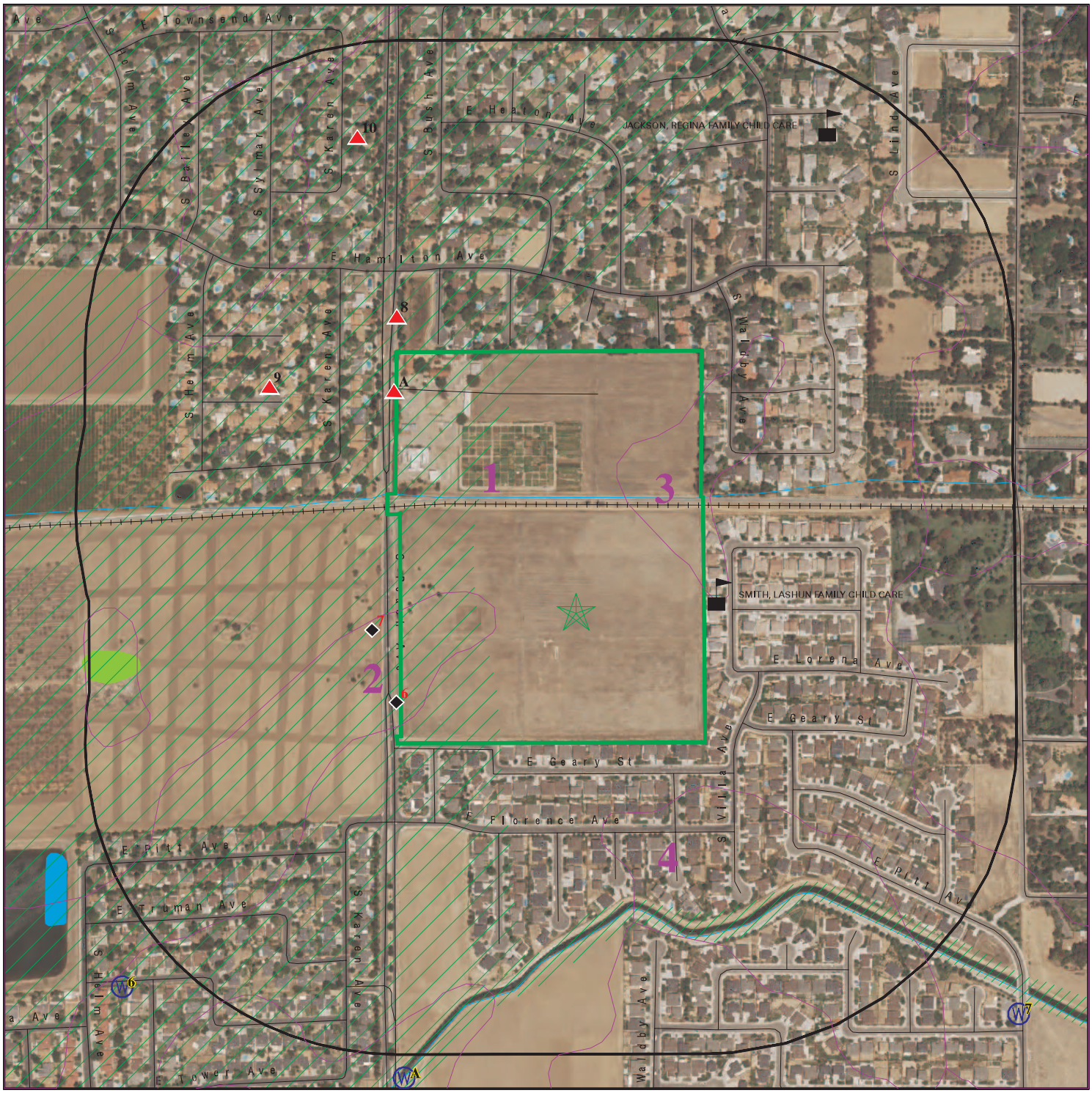
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 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:	Southeast Fresno Regional Park	CLIENT:	Wallace - Kuhl & Associates
ADDRESS:	2155 South Peach Avenue Fresno CA 93727	CONTACT:	Nancy Malaret
		INQUIRY #:	6281215.2s
LAT/LONG:	36.720995 / 119.715799	DATE:	November 25, 2020 1:29 pm

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DETAIL MAP - 6281215.2S



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

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

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:	Southeast Fresno Regional Park	CLIENT:	Wallace - Kuhl & Associates
ADDRESS:	2155 South Peach Avenue Fresno CA 93727	CONTACT:	Nancy Malaret
LAT/LONG:	36.720995 / 119.715799	INQUIRY #:	6281215.2s
		DATE:	November 25, 2020 1:30 pm

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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	0	NR	0
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		1	0	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
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		1	0	NR	NR	NR	1
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		0	0	2	0	NR	2
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		1	0	0	NR	NR	1

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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	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		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	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		1	0	NR	NR	NR	1
HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		1	0	NR	NR	NR	1
CERS TANKS	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		0	1	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
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	0	NR	0
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
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	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		1	0	0	NR	NR	1
CUPA Listings	0.250		3	0	NR	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
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		1	0	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
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
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
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	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		1	NR	NR	NR	NR	1
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 --		0	13	1	2	0	0	16

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

A1 **USDA ARS** **FINDS** **1000187655**
NW **2021 S PEACH AVE** **ECHO** **N/A**
< 1/8 **FRESNO, CA 93727** **CUPA Listings**
0.002 mi.
9 ft. **Site 1 of 5 in cluster A**

Relative:
Higher

Actual:
310 ft.

FINDS:
Registry ID: 110002625641

Click Here:

Environmental Interest/Information System:
FEDERAL FACILITY HAZARDOUS WASTE DOCKET
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
SUPERFUND (NON-NPL)

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000187655
Registry ID: 110002625641
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002625641
Name: USDA ARS
Address: 2021 S PEACH AVE
City,State,Zip: FRESNO, CA 93727

CUPA FRESNO:
Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Facility ID: FA0170540
Cross Street: Not reported
APM Number: 481020294
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: Not reported
GIS Longitude: Not reported
Program Element: UST REMOVAL/CLOSURE W/7 TANKS

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Facility ID: FA0170540
Cross Street: Not reported
APM Number: 481020294
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: Not reported
GIS Longitude: Not reported
Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727

USDA ARS (Continued) **1000187655**

Facility ID: FA0170540
Cross Street: Not reported
APM Number: 481020294
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: Not reported
GIS Longitude: Not reported
Program Element: HAZ MAT DISCLOSURE/CLOSED SITE

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Facility ID: FA0170540
Cross Street: Not reported
APM Number: 481020294
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: Not reported
GIS Longitude: Not reported
Program Element: EXTREMELY HAZARDOUS SUBSTANCE HANDLER (EPCRA)

Name: USDA AGRICULTURE RESEARCH SERVICE
Address: 2021 S PEACH
City,State,Zip: FRESNO, CA 93727
Facility ID: FA0170540
Cross Street: Not reported
APM Number: 481020294
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: Not reported
GIS Longitude: Not reported
Program Element: CONTAMINATED SITE - MISC/RWQCB LEAD

A2 **USDA AGRICULTURE RESEARCH SVC** **SWEEPS UST** **S101581669**
NW **2021 S PEACH** **CA FID UST** **N/A**
< 1/8 **FRESNO, CA 93701**
0.002 mi.
9 ft. **Site 2 of 5 in cluster A**

Relative: SWEEPS UST:
Higher
Actual: Name: USDA AGRICULTURE RESEARCH SVC
310 ft. Address: 2021 S PEACH
City: FRESNO
Status: Not reported
Comp Number: 1004
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 10-000-001004-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED

USDA AGRICULTURE RESEARCH SVC (Continued) **S101581669**

Number Of Tanks: 1

CA FID UST:
Facility ID: 10004435
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 800 BUCHANAN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: FRESNO 93701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

A3 **FRUIT GENETICS & BREEDING RESE** **HIST UST** **U001592915**
NW **2021 S PEACH AVE** **N/A**
< 1/8 **FRESNO, CA 93727**
0.002 mi.
9 ft. **Site 3 of 5 in cluster A**

Relative: HIST UST:
Higher
Actual:
310 ft.

Name: FRUIT GENETICS & BREEDING RESE
Address: 2021 S PEACH AVE
City,State,Zip: FRESNO, CA 93727
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000059014
Facility Type: Gas Station
Other Type: Not reported
Contact Name: OWEN TANNER
Telephone: 2094875334
Owner Name: USDA, ARS, FRUIT GENETICS & BR
Owner Address: 2021 S. PEACH AVE.
Owner City,St,Zip: FRESNO, CA 93727
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

A4 **USDA ARS** **SEMS-ARCHIVE** **1015732585**
NW **2021 S PEACH AVE** **RCRA-SQG** **CA7120090397**
< 1/8 **FRESNO, CA 93727** **DOCKET HWC**
0.002 mi.
9 ft. **Site 4 of 5 in cluster A**

Relative: Higher

Actual: 310 ft.

SEMS Archive:

Site ID:	0903879
EPA ID:	CA7120090397
Name:	USDA, ARS
Address:	2021 SOUTH PEACH AVENUE
Address 2:	Not reported
City,State,Zip:	FRESNO, CA 93727
Cong District:	15
FIPS Code:	06019
FF:	Y
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0903879
EPA ID:	CA7120090397
Site Name:	USDA, ARS
NPL:	N
FF:	Y
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1998-10-23 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0903879
EPA ID:	CA7120090397
Site Name:	USDA, ARS
NPL:	N
FF:	Y
OU:	00
Action Code:	RX
Action Name:	FF PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1998-10-23 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903879
EPA ID:	CA7120090397
Site Name:	USDA, ARS
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1

USDA ARS (Continued) **1015732585**

Start Date:	Not reported
Finish Date:	1992-09-08 04:00:00
Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903879
EPA ID:	CA7120090397
Site Name:	USDA, ARS
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1991-04-26 04:00:00
Finish Date:	1991-04-26 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

RCRA-SQG:

Date Form Received by Agency:	1987-07-01 00:00:00.0
Handler Name:	USDA ARS
Handler Address:	2021 S PEACH AVE
Handler City,State,Zip:	FRESNO, CA 93727
EPA ID:	CA7120090397
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	2021 S PEACH AVE
Contact City,State,Zip:	FRESNO, CA 93727
Contact Telephone:	209-487-5351
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	5
Mailing Address:	S PEACH AVE
Mailing City,State,Zip:	FRESNO, CA 93727
Owner Name:	UNITED STATES OF AMERICA
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
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

USDA ARS (Continued) **1015732585**

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:	NN
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:	2000-09-15 17:31:34.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES OF AMERICA
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999

USDA ARS (Continued) **1015732585**

Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1987-07-01 00:00:00.0
Handler Name:	USDA ARS
Federal Waste Generator Description:	Small 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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

DOCKET HWC:

Agency:	AGRICULTURE
Facility ID:	CA7120090397
Reporting Mechanism:	RCRA 3016
Status:	On MDL

A5
NW
< 1/8
0.002 mi.
9 ft.

FRUIT GENETICS AND BREEDING RESE
2021 S PEACH AVE
FRESNO, CA 93727

Site 5 of 5 in cluster A

HIST UST **S112977836**
N/A

Relative:
Higher

Actual:
310 ft.

HIST UST:

Name:	FRUIT GENETICS AND BREEDING RESE
Address:	2021 S PEACH AVE
City,State,Zip:	FRESNO, CA 93727
File Number:	000256E8
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000256E8.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

6
WSW
< 1/8
0.003 mi.
18 ft.

USDA AGRICULTURE RESEARCH SERVICE
2221 S PEACH
FRESNO, CA 93727

CUPA Listings **S106176714**
N/A

Relative:
Lower

Actual:
308 ft.

CUPA FRESNO:

Name:	USDA AGRICULTURE RESEARCH SERVICE
Address:	2221 S PEACH
City,State,Zip:	FRESNO, CA 93727
Facility ID:	FA0170542
Cross Street:	Not reported
APM Number:	Not reported
CERS Id:	Not reported
SWIS Number:	Not reported
GIS Latitude:	Not reported
GIS Longitude:	Not reported
Program Element:	UST REMOVAL/CLOSURE W/1 TANK

7
West
< 1/8
0.023 mi.
120 ft.

OHANESIAN PROPERTY
2122 S PEACH AVE
FRESNO, CA 93725

CUPA Listings **S118489096**
N/A

Relative:
Lower

Actual:
308 ft.

CUPA FRESNO:

Name:	OHANESIAN PROPERTY
Address:	2122 S PEACH AVE
City,State,Zip:	FRESNO, CA 93725
Facility ID:	FA0284615
Cross Street:	Not reported
APM Number:	48102047
CERS Id:	Not reported
SWIS Number:	Not reported
GIS Latitude:	36.720243
GIS Longitude:	-119.72082
Program Element:	CONTAMINATED SITE - MISC/RWQCB LEAD

8
NNW
< 1/8
0.028 mi.
150 ft.

U.S.D.A. AGRICULTURE RESEARCH
2021 PEACH
FRESNO, CA 93711

LUST **S102439513**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Higher

Actual:
311 ft.

LUST:

Name:	U.S.D.A. AGRICULTURE RESEARCH
Address:	2021 PEACH
City,State,Zip:	FRESNO, CA 93711
Lead Agency:	FRESNO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900555
Global Id:	T0601900555
Latitude:	36.7244234
Longitude:	-119.7183953
Status:	Completed - Case Closed
Status Date:	04/04/1996
Case Worker:	EHD
RB Case Number:	5T10000572
Local Agency:	FRESNO COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0601900555
Contact Type:	Local Agency Caseworker
Contact Name:	FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV
Organization Name:	FRESNO COUNTY
Address:	1221 Fulton Street
City:	Fresno
Email:	environmentalhealth@fresnocountyca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0601900555
Action Type:	Other
Date:	07/13/1995

U.S.D.A. AGRICULTURE RESEARCH (Continued) **S102439513**

Action: Leak Discovery

Global Id: T0601900555
Action Type: Other
Date: 05/15/1995
Action: Leak Stopped

Global Id: T0601900555
Action Type: Other
Date: 07/13/1995
Action: Leak Reported

LUST:
Global Id: T0601900555
Status: Open - Case Begin Date
Status Date: 05/15/1995

Global Id: T0601900555
Status: Open - Site Assessment
Status Date: 07/13/1995

Global Id: T0601900555
Status: Completed - Case Closed
Status Date: 04/04/1996

LUST REG 5:
Name: U.S.D.A. AGRICULTURE RESEARCH
Address: 2021 PEACH
City: FRESNO
Region: 5
Status: Case Closed
Case Number: 5T10000572
Case Type: Soil only
Substance: DIESEL
Staff Initials: DAM
Lead Agency: Local
Program: LUST
MTBE Code: N/A

CORTESE:
Name: U.S.D.A. AGRICULTURE RESEARCH
Address: 2021 PEACH
City,State,Zip: FRESNO, CA 93711
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900555
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

U.S.D.A. AGRICULTURE RESEARCH (Continued) **S102439513**

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

HIST CORTESE:

edr_fname:	U.S.D.A. AGRICULTURE RESE
edr_fadd1:	2021 PEACH
City,State,Zip:	FRESNO, CA 93727
Region:	CORTESE
Facility County Code:	10
Reg By:	LTNKA
Reg Id:	5T10000572

CERS:

Name:	U.S.D.A. AGRICULTURE RESEARCH
Address:	2021 PEACH
City,State,Zip:	FRESNO, CA 93711
Site ID:	201687
CERS ID:	T0601900555
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - FRESNO COUNTY
Entity Title:	Not reported
Affiliation Address:	1221 Fulton Street
Affiliation City:	Fresno
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

9
NW
< 1/8
0.102 mi.
537 ft.

SERVPRO OF FRESNO SOUTH **EDR Hist Cleaner** **1018854036**
5171 E WOODWARD AVE **N/A**
FRESNO, CA 93702

Relative:
Higher

Actual:
309 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1978	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs
1979	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs
1980	SERVPRO OF FRESNO SOUTH	Drycleaning Plants, Except Rugs

10
NNW
1/8-1/4
0.176 mi.
927 ft.

JESSE DOMINGUEZ
1653 SOUTH KAREN AVENUE
FRESNO, CA 93727

RCRA NonGen / NLR | **1025832849** | **CAC003012420**

Relative:
Higher

Actual:
312 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-04-29 00:00:00.0
Handler Name:	JESSE DOMINGUEZ
Handler Address:	1653 SOUTH KAREN AVENUE
Handler City,State,Zip:	FRESNO, CA 93727-5938
EPA ID:	CAC003012420
Contact Name:	JESSE DOMINGUEZ
Contact Address:	1653 SOUTH KAREN AVENUE
Contact City,State,Zip:	FRESNO, CA 93727-5938
Contact Telephone:	559-320-5921
Contact Fax:	Not reported
Contact Email:	CASSIEMCGRATH@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:	1653 SOUTH KAREN AVENUE
Mailing City,State,Zip:	FRESNO, CA 93727-5938
Owner Name:	JESSE DOMINGUEZ
Owner Type:	Other
Operator Name:	JESSE DOMINGUEZ
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

JESSE DOMINGUEZ (Continued) **1025832849**

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 11:34:16.0
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:	JESSE DOMINGUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1653 SOUTH KAREN AVENUE
Owner/Operator City,State,Zip:	FRESNO, CA 93727-5938
Owner/Operator Telephone:	559-320-5921
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JESSE DOMINGUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1653 SOUTH KAREN AVENUE
Owner/Operator City,State,Zip:	FRESNO, CA 93727-5938
Owner/Operator Telephone:	559-320-5921
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

JESSE DOMINGUEZ (Continued) **1025832849**

Historic Generators:

Receive Date:	2019-04-29 00:00:00.0
Handler Name:	JESSE DOMINGUEZ
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

11
SSE
1/4-1/2
0.380 mi.
2007 ft.

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE **ENVIROSTOR** **S123133182**
SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR. **SCH** **N/A**
FRESNO, CA 93725

Relative:
Lower

Actual:
308 ft.

ENVIROSTOR:

Name:	CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
Address:	SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
City,State,Zip:	FRESNO, CA 93725
Facility ID:	60002701
Status:	No Further Action
Status Date:	07/22/2019
Site Code:	104792
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Elizabeth Tisdale
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Assembly:	, 31
Senate:	, 08
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	36.71395
Longitude:	-119.7131

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued) **S123133182**

APN: 48130034ST, 48130035ST
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 48130034ST
Alias Type: APN
Alias Name: 48130035ST
Alias Type: APN
Alias Name: 104792
Alias Type: Project Code (Site Code)
Alias Name: 60002701
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: 09/18/2018
Comments: Fully executed EOA sent to District via regular mail on 09/18/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2018
Comments: On August 22, 2018, the PEA scoping meeting was held.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/17/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 08/03/2018
Comments: On August 3, 2018, the District submitted an EOP Application via email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/03/2018
Comments: On October 3, 2018, DTSC approved the PEA Workplan as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/23/2018
Comments: Fieldwork was conducted on 23 October 2018.

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

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued) **S123133182**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE
Address: SW CORNER OF E. CHURCH AVE. AND S. ORANGEWOOD DR.
City,State,Zip: FRESNO, CA 93725
Facility ID: 60002701
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Elizabeth Tisdale
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 104792
Assembly: , 31
Senate: , 08
Special Program Status: Not reported
Status: No Further Action
Status Date: 07/22/2019
Restricted Use: NO
Funding: School District
Latitude: 36.71395
Longitude: -119.7131
APN: 48130034ST, 48130035ST
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 48130034ST
Alias Type: APN
Alias Name: 48130035ST
Alias Type: APN
Alias Name: 104792
Alias Type: Project Code (Site Code)
Alias Name: 60002701
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: 09/18/2018
Comments: Fully executed EOA sent to District via regular mail on 09/18/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2018
Comments: On August 22, 2018, the PEA scoping meeting was held.

CHURCH & ORANGEWOOD PROPOSED SCHOOL SITE (Continued) **S123133182**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/17/2019
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement Application
Completed Date:	08/03/2018
Comments:	On August 3, 2018, the District submitted an EOP Application via email.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	10/03/2018
Comments:	On October 3, 2018, DTSC approved the PEA Workplan as final.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/23/2018
Comments:	Fieldwork was conducted on 23 October 2018.

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

12
SSW
1/4-1/2
0.464 mi.
2452 ft.

PLANNED SOUTHEAST SCHOOL SITE
SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
FRESNO, CA 93725

ENVIROSTOR SCH **S118466279 N/A**

Relative:
Lower

Actual:
304 ft.

ENVIROSTOR:

Name:	PLANNED SOUTHEAST SCHOOL SITE
Address:	SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
City,State,Zip:	FRESNO, CA 93725
Facility ID:	60002297
Status:	No Further Action
Status Date:	07/19/2016
Site Code:	104750
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	51.48
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jose Luevano
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana

PLANNED SOUTHEAST SCHOOL SITE (Continued) **S118466279**

Assembly: , 31
Senate: , 08
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 36.71338
Longitude: -119.7220
APN: 481-090-16, 481-090-18, 481-090-23, 481-090-27, 481-090-28, 48109016, 48109018, 48109023ST, 48109027, 48109028
Past Use: ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA, SCHOOL - ELEMENTARY, UNDERGROUND STORAGE TANKS
Potential COC: Arsenic Chlordane DDD DDE DDT Lead Polychlorinated biphenyls (PCBs
Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO 30018-NO No Contaminants found
Potential Description: SOIL
Alias Name: Planned School Site
Alias Type: Alternate Name
Alias Name: 481-090-16
Alias Type: APN
Alias Name: 481-090-18
Alias Type: APN
Alias Name: 481-090-23
Alias Type: APN
Alias Name: 481-090-27
Alias Type: APN
Alias Name: 481-090-28
Alias Type: APN
Alias Name: 48109016
Alias Type: APN
Alias Name: 48109018
Alias Type: APN
Alias Name: 48109023ST
Alias Type: APN
Alias Name: 48109027
Alias Type: APN
Alias Name: 48109028
Alias Type: APN
Alias Name: 104750
Alias Type: Project Code (Site Code)
Alias Name: 60002297
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: 09/18/2017
Comments: Closeout Form 1554 submitted on 6/9/17 and processed by CRBU on 9/18/17; closeout complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/16/2016
Comments: EOA fully executed on Feb 16, 2016.

PLANNED SOUTHEAST SCHOOL SITE (Continued) **S118466279**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	03/30/2016
Comments:	On Mar 30, 2016, DTSC approved the PEA Workplan for implementation. Fieldwork is scheduled for the week of April 11, 2016.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/19/2016
Comments:	On Jul 18, 2016, DTSC concurred with the recommendation of the PEA Report and issued a 'No Further Action' determination for the site.

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:	PLANNED SOUTHEAST SCHOOL SITE
Address:	SOUTHWEST CORNER OF E. CHURCH & S. PEACH AVENUES
City,State,Zip:	FRESNO, CA 93725
Facility ID:	60002297
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	51.48
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jose Luevano
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Site Code:	104750
Assembly:	, 31
Senate:	, 08
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/19/2016
Restricted Use:	NO
Funding:	School District
Latitude:	36.71338
Longitude:	-119.7220
APN:	481-090-16, 481-090-18, 481-090-23, 481-090-27, 481-090-28, 48109016, 48109018, 48109023ST, 48109027, 48109028
Past Use:	ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA, SCHOOL - ELEMENTARY, UNDERGROUND STORAGE TANKS
Potential COC:	Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Polychlorinated

PLANNED SOUTHEAST SCHOOL SITE (Continued) **S118466279**

	biphenyls (PCBs
Confirmed COC:	30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, 30018-NO, No Contaminants found
Potential Description:	SOIL
Alias Name:	Planned School Site
Alias Type:	Alternate Name
Alias Name:	481-090-16
Alias Type:	APN
Alias Name:	481-090-18
Alias Type:	APN
Alias Name:	481-090-23
Alias Type:	APN
Alias Name:	481-090-27
Alias Type:	APN
Alias Name:	481-090-28
Alias Type:	APN
Alias Name:	48109016
Alias Type:	APN
Alias Name:	48109018
Alias Type:	APN
Alias Name:	48109023ST
Alias Type:	APN
Alias Name:	48109027
Alias Type:	APN
Alias Name:	48109028
Alias Type:	APN
Alias Name:	104750
Alias Type:	Project Code (Site Code)
Alias Name:	60002297
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:	09/18/2017
Comments:	Closeout Form 1554 submitted on 6/9/17 and processed by CRBU on 9/18/17; closeout complete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/16/2016
Comments:	EOA fully executed on Feb 16, 2016.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	03/30/2016
Comments:	On Mar 30, 2016, DTSC approved the PEA Workplan for implementation. Fieldwork is scheduled for the week of April 11, 2016.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/19/2016
Comments:	On Jul 18, 2016, DTSC concurred with the recommendation of the PEA Report and issued a 'No Further Action' determination for the site.

PLANNED SOUTHEAST SCHOOL SITE (Continued) **S118466279**

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

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRESNO	S105960401	PACIFIC GAS AND ELECTRIC - FRESNO	CALIFORNIA AND ORANGE AVENUES	93725	CA BOND EXP. PLAN
FRESNO	S112138493		PEACH AVE, 1/8 MILE S OF CENTR	93725	CDL
FRESNO	S126143205	PROPOSED TEMPERANCE ELEMENTARY SCH	WEST SIDE OF TEMPERANCE AVENUE	93727	ENVIROSTOR, SCH

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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/11/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/11/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/11/2021
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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/25/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/25/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 87

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 08/06/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/11/2020
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 87

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/10/2020
Next Scheduled EDR Contact: 02/22/2021
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 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: 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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

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

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 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 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 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 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 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 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

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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

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: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 02/01/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 05/26/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 09/15/2020
Next Scheduled EDR Contact: 12/28/2020
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: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/03/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

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: 04/20/2009
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: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/15/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

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

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: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 01/18/2021
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: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Annually

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: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

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

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: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

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: 08/26/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/11/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
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: 06/22/2020
Date Data Arrived at EDR: 06/23/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 86

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 06/30/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
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: 10/13/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/08/2020
Next Scheduled EDR Contact: 01/18/2021
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: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
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: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
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: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
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: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 12/14/2020
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: 07/24/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/14/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
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: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 01/31/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/04/2020
Next Scheduled EDR Contact: 12/14/2020
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: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
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: 11/06/2021
Next Scheduled EDR Contact: 02/15/2021
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: 09/24/2020
Next Scheduled EDR Contact: 01/11/2021
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: 10/27/2020
Next Scheduled EDR Contact: 02/08/2021
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: 06/30/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/21/2020
Number of Days to Update: 6

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
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: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
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: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
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: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 01/11/2021
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

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 09/10/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

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: 08/04/2020
Date Data Arrived at EDR: 08/25/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 85
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Semi-Annually

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: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
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: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
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: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 80
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 12/21/2020
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: 09/04/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/15/2020
Next Scheduled EDR Contact: 12/14/2020
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: 10/08/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/08/2021
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: 06/27/2020
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Quarterly

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: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 65
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/04/2021
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: 11/13/2020
Next Scheduled EDR Contact: 02/22/2021
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: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/13/2020
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
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: 08/06/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

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: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
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: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/13/2020
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 Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/22/2021
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: 10/05/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 07/06/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/29/2020
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 08/21/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 08/27/2020
Number of Days to Update: 6
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/20/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/06/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/18/2021
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: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
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: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

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: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

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: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

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: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
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: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

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: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
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

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: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 16

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/17/2020
Date Data Arrived at EDR: 06/18/2020
Date Made Active in Reports: 09/02/2020
Number of Days to Update: 76

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/04/2021
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: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 07/16/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
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: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 78

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

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: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/14/2020
Number of Days to Update: 76

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/10/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 80

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/13/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
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: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
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: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/12/2020
Next Scheduled EDR Contact: 01/25/2021
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: 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: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
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: 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: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
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: 03/25/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/05/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/24/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 06/10/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/02/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/01/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
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: 06/08/2020
Date Data Arrived at EDR: 06/10/2020
Date Made Active in Reports: 08/24/2020
Number of Days to Update: 75

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/15/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
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: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
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: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/23/2020
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 09/11/2020
Next Scheduled EDR Contact: 12/21/2020
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: 09/01/2020
Next Scheduled EDR Contact: 12/21/2020
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/20/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2020
Date Data Arrived at EDR: 07/31/2020
Date Made Active in Reports: 10/16/2020
Number of Days to Update: 77

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/07/2020
Date Data Arrived at EDR: 07/08/2020
Date Made Active in Reports: 09/25/2020
Number of Days to Update: 79

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
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: 07/01/2020
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 Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 83

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

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 Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/06/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 81

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
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: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 05/26/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
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: 06/23/2020
Date Data Arrived at EDR: 06/29/2020
Date Made Active in Reports: 09/15/2020
Number of Days to Update: 78

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/07/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/08/2021
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: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 10/09/2020
Next Scheduled EDR Contact: 01/18/2021
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: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 09/02/2020
Next Scheduled EDR Contact: 12/21/2020
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SOUTHEAST FRESNO REGIONAL PARK
2155 SOUTH PEACH AVENUE
FRESNO, CA 93727

TARGET PROPERTY COORDINATES

Latitude (North):	36.720995 - 36° 43' 15.58''
Longitude (West):	119.715799 - 119° 42' 56.88''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	257446.9
UTM Y (Meters):	4067158.2
Elevation:	309 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5603192 MALAGA, 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).

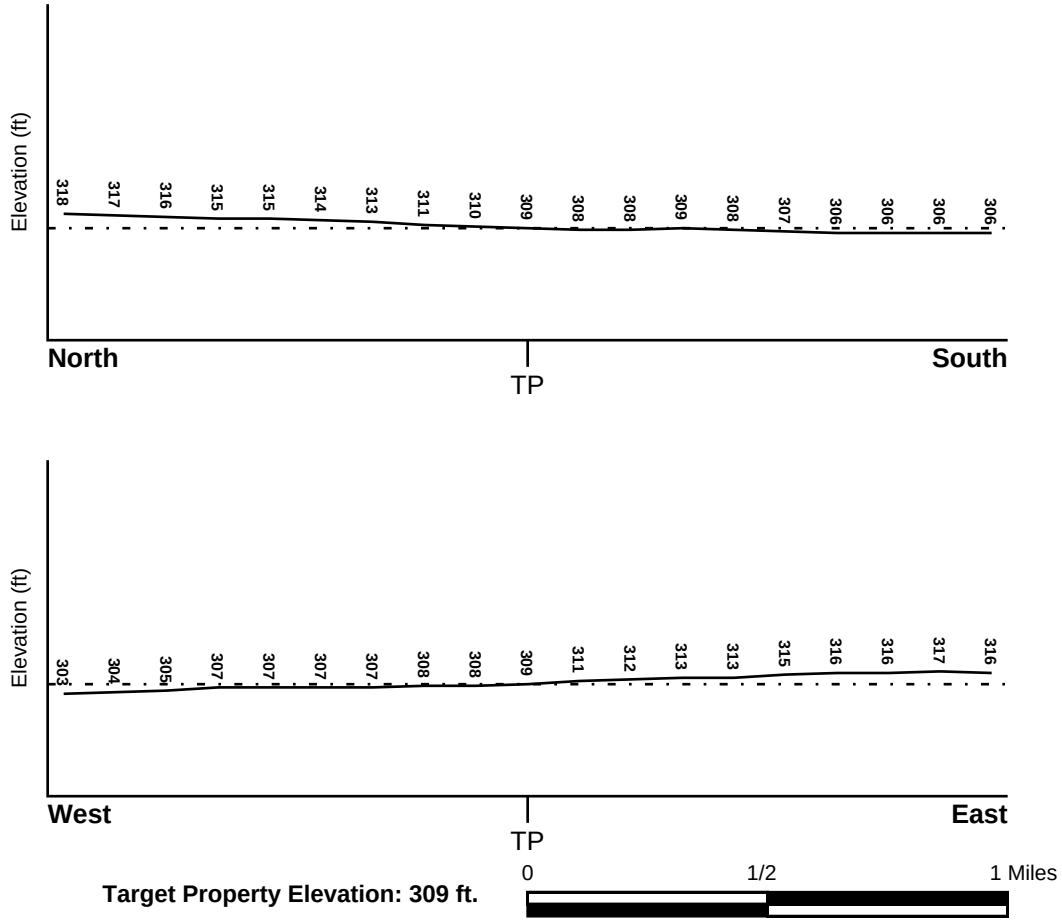
TOPOGRAPHIC INFORMATION

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 SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 309 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
06019C2130H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MALAGA	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

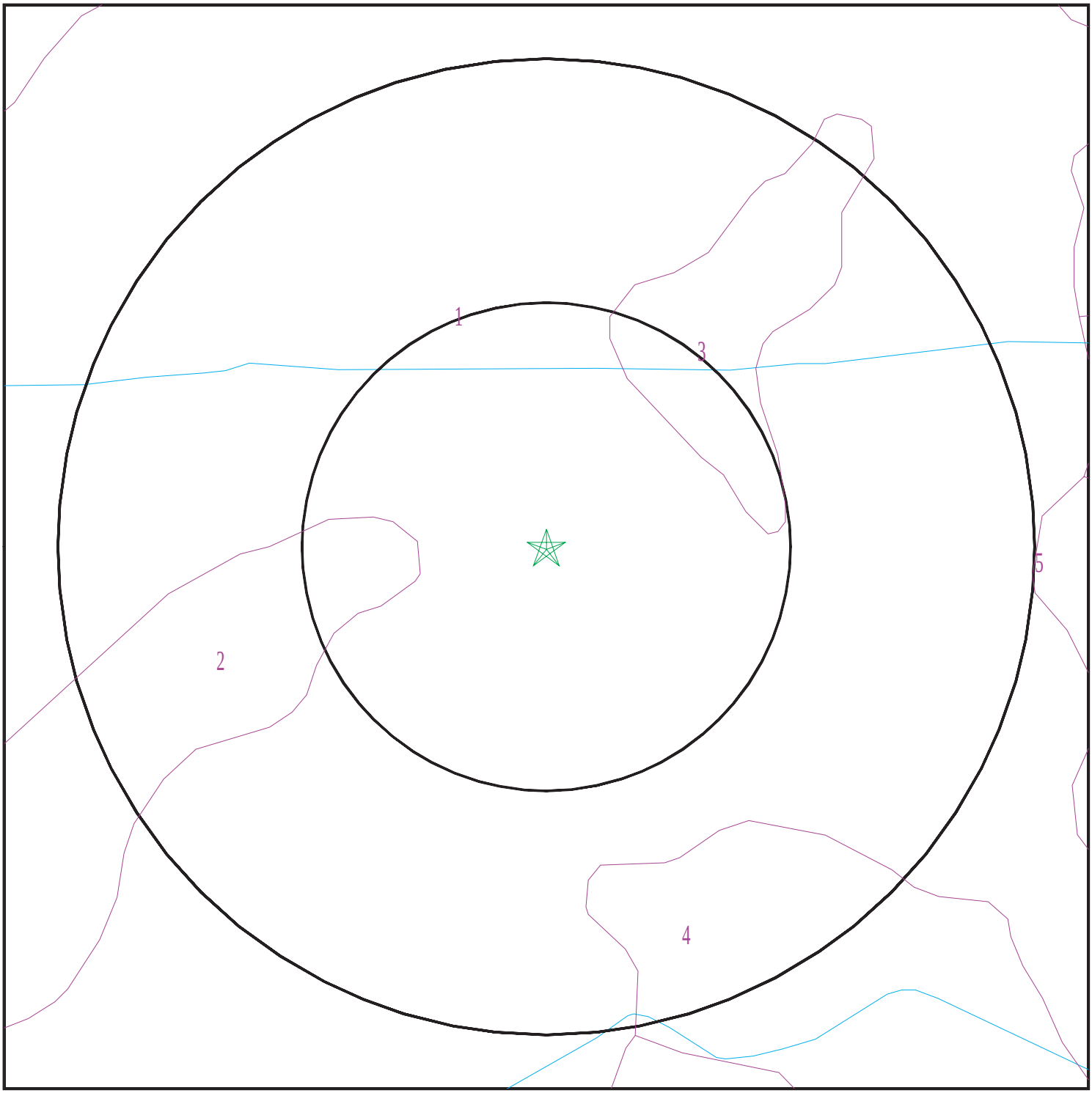
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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 - 6281215.2s



SITE NAME:	Southeast Fresno Regional Park	CLIENT:	Wallace - Kuhl & Associates
ADDRESS:	2155 South Peach Avenue Fresno CA 93727	CONTACT:	Nancy Malaret
LAT/LONG:	36.720995 / 119.715799	INQUIRY #:	6281215.2s
		DATE:	November 25, 2020 1:30 pm

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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: RAMONA

Soil Surface Texture: 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	24 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	38 inches	59 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: RAMONA

Soil Surface Texture: 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	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		
3	24 inches	40 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
4	40 inches	53 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 3

Soil Component Name: HANFORD

Soil Surface Texture: 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	72 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 4

Soil Component Name: ATWATER

Soil Surface Texture: 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6
2	24 inches	42 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6

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	42 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6

Soil Map ID: 5

Soil Component Name: DELHI

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

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	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	7 inches	25 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 6.1

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	25 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 141 Min: 42	Max: 7.3 Min: 6.1

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
6	USGS40000176807	1/4 - 1/2 Mile SW
C12	USGS40000176946	1/2 - 1 Mile NNE
E20	USGS40000176895	1/2 - 1 Mile WNW
F22	USGS40000176971	1/2 - 1 Mile NNW
24	USGS40000176980	1/2 - 1 Mile NNW
47	USGS40000176997	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

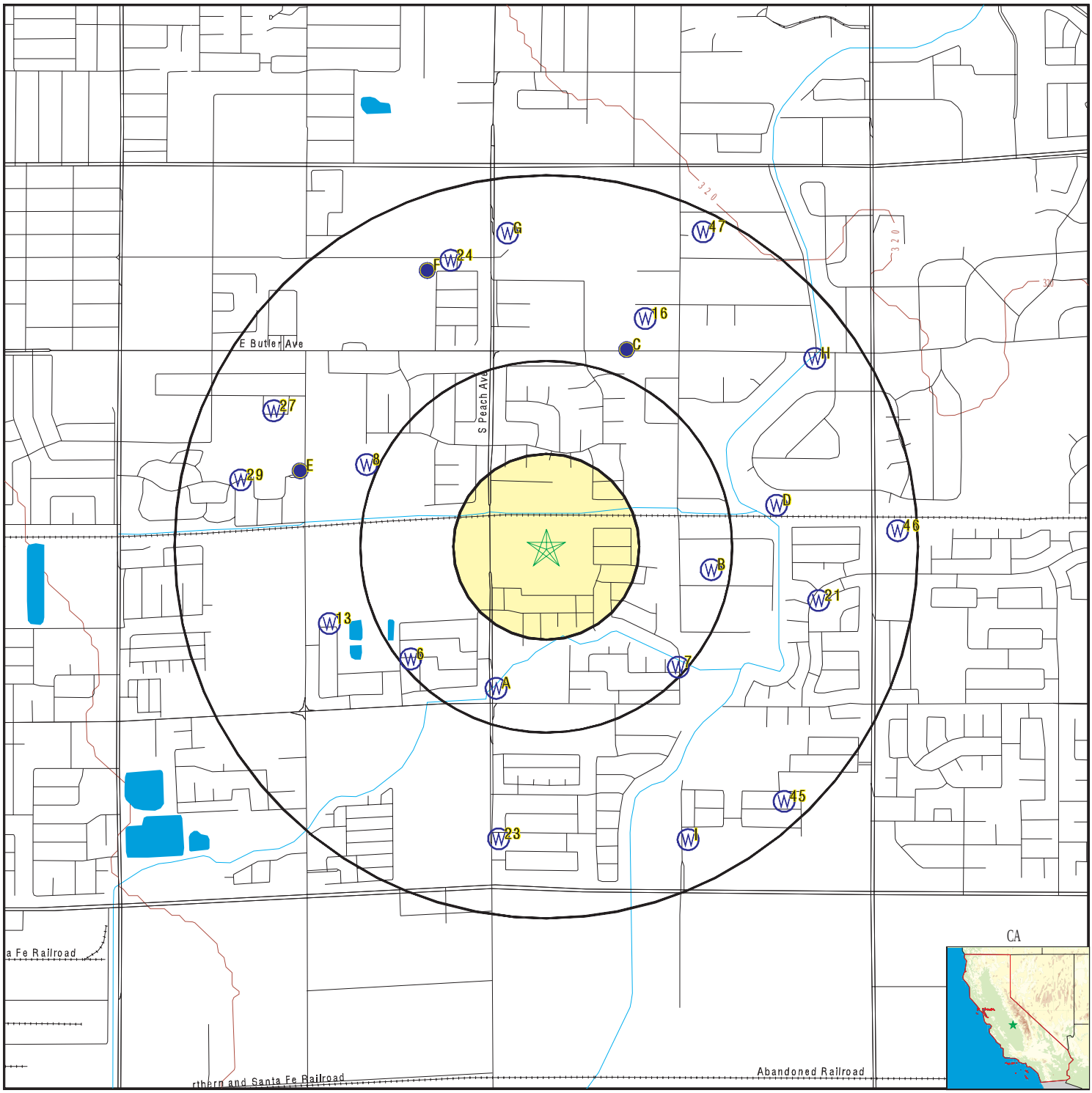
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CADDW0000007729	1/4 - 1/2 Mile SSW
A2	12242	1/4 - 1/2 Mile SSW
A3	CADDW0000022289	1/4 - 1/2 Mile SSW
B4	CAUSGS000002685	1/4 - 1/2 Mile East
B5	CAUSGSN00002557	1/4 - 1/2 Mile East
7	CADDW0000010916	1/4 - 1/2 Mile SE
8	CAEDF0000017697	1/2 - 1 Mile WNW
C9	12218	1/2 - 1 Mile NNE
C10	CADDW0000003991	1/2 - 1 Mile NNE
C11	CADDW0000005401	1/2 - 1 Mile NNE
13	CADPR0000001130	1/2 - 1 Mile WSW
D14	CADDW0000001096	1/2 - 1 Mile East
D15	12221	1/2 - 1 Mile East
16	CADWR0000030090	1/2 - 1 Mile NNE
E17	CADDW0000006843	1/2 - 1 Mile WNW
E18	CADDW0000001826	1/2 - 1 Mile WNW
E19	CAUSGSN00011085	1/2 - 1 Mile WNW
21	CADDW0000007735	1/2 - 1 Mile East
23	CADDW0000008657	1/2 - 1 Mile South
F25	CADDW0000016617	1/2 - 1 Mile NNW
F26	CADDW0000021732	1/2 - 1 Mile NNW
27	CADWR0000037265	1/2 - 1 Mile WNW
G28	12213	1/2 - 1 Mile North
29	CALLNL000001037	1/2 - 1 Mile WNW
G30	12210	1/2 - 1 Mile North
G31	12206	1/2 - 1 Mile North
G32	23285	1/2 - 1 Mile North
G33	12212	1/2 - 1 Mile North
H34	CADDW0000020134	1/2 - 1 Mile NE
I35	CADPR0000002552	1/2 - 1 Mile SSE
I36	CAUSGSN00018981	1/2 - 1 Mile SSE
I37	CAUSGSN00017162	1/2 - 1 Mile SSE
I38	CAUSGS000000030	1/2 - 1 Mile SSE
I39	CAUSGSN00008633	1/2 - 1 Mile SSE
I40	CAUSGSN00007398	1/2 - 1 Mile SSE
I41	CAUSGS000002300	1/2 - 1 Mile SSE
I42	CADDW0000011635	1/2 - 1 Mile SSE
I43	CADDW0000018927	1/2 - 1 Mile SSE
H44	12220	1/2 - 1 Mile NE
45	12244	1/2 - 1 Mile SE
46	12233	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 6281215.2s



- 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
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Southeast Fresno Regional Park	CLIENT:	Wallace - Kuhl & Associates
ADDRESS:	2155 South Peach Avenue Fresno CA 93727	CONTACT:	Nancy Malaret
		INQUIRY #:	6281215.2s
LAT/LONG:	36.720995 / 119.715799	DATE:	November 25, 2020 1:30 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000007729**

Well ID:	1010007-297	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 100-2 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-297&store_num=		
GeoTracker Data:	Not Reported		

A2
SSW
1/4 - 1/2 Mile
Lower

CA WELLS **12242**

Seq:	12242	Prim sta c:	14S/21E-17E02 M
Frds no:	1010007297	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 100-2	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364256.0	Longitude:	1194303.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

Sample date:	09-MAR-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-FEB-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	21-JAN-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	16-DEC-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	25-NOV-14	Finding:	1.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	18-NOV-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	15-OCT-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUL-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-MAY-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	0.69
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-APR-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-APR-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	02-APR-14	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-APR-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-APR-14	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	02-APR-14	Finding:	260.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	49.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	26.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	33.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	10-FEB-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-13	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-NOV-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-SEP-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-13	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-13	Finding:	4.42
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	10-JUL-13	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-13	Finding:	0.348
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JUL-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAY-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-DEC-12	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-NOV-12	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-SEP-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

A3
SSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000022289**

Well ID:	1010007-234	Well Type:	MUNICIPAL
Source:	Department of Health Services		

Other Name:	WELL 100-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-234&store_num=		
GeoTracker Data:	Not Reported		

B4
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGS000002685**

Well ID:	S3-MACK-K33	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	S3-MACK-K33	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=S3-MACK-K33&store_num=		
GeoTracker Data:	Not Reported		

B5
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00002557**

Well ID:	USGS-364300119420001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364300119420001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364300119420001&store_num=		
GeoTracker Data:	Not Reported		

6
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000176807**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E18H001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
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:	1963-02-01
Feet below surface:	49.22	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
SE
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000010916**

Well ID:	1010007-678	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 331 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-678&store_num=		
GeoTracker Data:	Not Reported		

8
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000017697**

Well ID:	AGW080013691-HOME WELL	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	HOME WELL
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGW080013691&assigned_name=HOME WELL&store_num=		
GeoTracker Data:	Not Reported		

C9
NNE
1/2 - 1 Mile
Higher

CA WELLS **12218**

Seq:	12218	Prim sta c:	14S/21E-08F01 M
Frds no:	1010007275	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 153-1	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364342.0	Longitude:	1194240.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

Sample date:	19-MAR-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	14-MAR-18	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		

Sample date:	14-MAR-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAR-18	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-FEB-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-FEB-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JAN-18	Finding:	0.365
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JAN-18	Finding:	4.53
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-JAN-18	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JAN-18	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	18-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-17	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	27-NOV-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-NOV-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-NOV-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-NOV-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-OCT-17	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-SEP-17	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	18-SEP-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-AUG-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-AUG-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-AUG-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-AUG-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-JUL-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUL-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUN-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-17	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-MAY-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-MAY-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-MAY-17	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-APR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	2.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		

Sample date:	03-MAR-17	Finding:	3.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-MAR-17	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	7.9
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-MAR-17	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	37.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	26.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	360.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	0.12
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	3.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	27-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JAN-17	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-DEC-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-DEC-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	21-NOV-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-NOV-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-NOV-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-OCT-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-OCT-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-SEP-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-SEP-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-SEP-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-16	Finding:	4.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	25-JUL-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUL-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAR-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-FEB-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-FEB-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-16	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JAN-16	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-15	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	26-NOV-14	Finding:	3.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-JUL-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUN-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUN-14	Finding:	0.47
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	5.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	09-JUN-14	Finding:	11.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-JUN-14	Finding:	13.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	29.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	09-JUN-14	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUN-14	Finding:	400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	30-APR-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-14	Finding:	2.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	12.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	11.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	30-APR-14	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-APR-14	Finding:	63.
Chemical:	COPPER	Report units:	UG/L
Dlr:	50.		
Sample date:	30-APR-14	Finding:	5.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	30-APR-14	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	0.36
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-14	Finding:	29.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	390.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	30-APR-14	Finding:	35.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	30-APR-14	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-APR-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-SEP-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-13	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C10
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000003991**

Well ID:	1010007-293	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153-2 INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-293&store_num=		
GeoTracker Data:	Not Reported		

C11
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000005401**

Well ID:	1010007-275	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-275&store_num=		
GeoTracker Data:	Not Reported		

C12
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000176946**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E08F002M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19940624	Well Depth:	260
Well Depth Units:	ft	Well Hole Depth:	265
Well Hole Depth Units:	ft		

13
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADPR0000001130**

Well ID:	84193	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84193	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84193&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D14
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000001096**

Well ID:	1010007-036	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 225 - INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-036&store_num=		
GeoTracker Data:	Not Reported		

D15
East
1/2 - 1 Mile
Higher

CA WELLS **12221**

Seq:	12221	Prim sta c:	14S/21E-08Q01 M
Frds no:	1010007036	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 225 - STANDBY	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364322.0	Longitude:	1194213.0
Precision:	2	Status:	SU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

Sample date:	21-FEB-18	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	13-FEB-18	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-FEB-18	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	06-FEB-18	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-JAN-18	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	30-JAN-18	Finding:	0.348
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JAN-18	Finding:	4.03
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-JAN-18	Finding:	3.52
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JAN-18	Finding:	0.33
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JAN-18	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JAN-18	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JAN-18	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JAN-18	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-DEC-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-DEC-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-DEC-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-DEC-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-NOV-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-NOV-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	13-NOV-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-OCT-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-OCT-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-OCT-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-SEP-17	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-SEP-17	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-SEP-17	Finding:	8.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-17	Finding:	8.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-AUG-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-AUG-17	Finding:	8.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-AUG-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	26-JUL-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUL-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUN-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUN-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUN-17	Finding:	9.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	9.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-MAY-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-MAY-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAY-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	10-APR-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-MAR-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-17	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAR-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	9.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-17	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-FEB-17	Finding:	24.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	28-FEB-17	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	25.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	49.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	28-FEB-17	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-17	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	0.45
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-FEB-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-17	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-FEB-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JAN-17	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JAN-17	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-JAN-17	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-16	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-16	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-DEC-16	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-NOV-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-NOV-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-NOV-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-OCT-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-OCT-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-SEP-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-SEP-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-16	Finding:	9.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-16	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	05-AUG-16	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JUL-16	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUN-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUN-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-MAY-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-16	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAY-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	22-APR-16	Finding:	8.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAR-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-16	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-16	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAR-16	Finding:	9.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-FEB-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-16	Finding:	9.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-16	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JAN-16	Finding:	9.3
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-DEC-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-DEC-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-NOV-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-NOV-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-NOV-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-NOV-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-NOV-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-OCT-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-OCT-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-OCT-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	15-SEP-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-AUG-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-AUG-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JUL-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JUL-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUL-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JUL-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUN-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JUN-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUN-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUN-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUN-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	27-MAY-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-MAY-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAY-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-APR-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-APR-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-15	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-FEB-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-FEB-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	09-FEB-15	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-15	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JAN-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-DEC-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-14	Finding:	2.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-DEC-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-AUG-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-AUG-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	11-AUG-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUL-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUL-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-MAY-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAY-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	01-MAY-14	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	23.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-MAY-14	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	25.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	46.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	0.64
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-APR-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	22-APR-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-APR-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAR-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAR-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JAN-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-DEC-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-DEC-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-NOV-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-NOV-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-NOV-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	07-NOV-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-OCT-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-OCT-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-OCT-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-SEP-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-AUG-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JUL-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	15-JUL-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUN-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-MAY-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-13	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAY-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-APR-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	04-APR-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-MAR-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-FEB-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-FEB-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-DEC-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-NOV-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-NOV-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-NOV-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-NOV-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	30-OCT-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-OCT-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-SEP-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-AUG-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUL-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	16-JUL-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUL-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUN-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-12	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-APR-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	26-MAR-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAR-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-FEB-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-FEB-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-FEB-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-FEB-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JAN-12	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JAN-12	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JAN-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JAN-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

16
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000030090**

Well ID:	14S21E08A002M	Well Type:	UNK
Source:	Department of Water Resources		

Other Name:	14S21E08A002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=14S21E08A002M&store_num=		
GeoTracker Data:	Not Reported		

E17
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000006843**

Well ID:	1010007-359	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 164-2 INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-359&store_num=		
GeoTracker Data:	Not Reported		

E18
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000001826**

Well ID:	1010007-276	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 164-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-276&store_num=		
GeoTracker Data:	Not Reported		

E19
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00011085**

Well ID:	USGS-364326119434001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364326119434001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364326119434001&store_num=		
GeoTracker Data:	Not Reported		

E20
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000176895**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E07P001M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	19920925	Well Depth:	735
Well Depth Units:	ft	Well Hole Depth:	748
Well Hole Depth Units:	ft		

21
East **CA WELLS** **CADDW0000007735**
1/2 - 1 Mile
Higher

Well ID:	1010007-650	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 337 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-650&store_num=		
GeoTracker Data:	Not Reported		

F22
NNW **FED USGS** **USGS40000176971**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E07H002M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720207	Well Depth:	380
Well Depth Units:	ft	Well Hole Depth:	435
Well Hole Depth Units:	ft		

23
South **CA WELLS** **CADDW0000008657**
1/2 - 1 Mile
Lower

Well ID:	1010007-682	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 341 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-682&store_num=		
GeoTracker Data:	Not Reported		

24
NNW **FED USGS** **USGS40000176980**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E07H001M	Type:	Well
Description:	Not Reported	HUC:	18030012

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
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:	1963-10-21
Feet below surface:	56.61	Feet to sea level:	Not Reported
Note:	Not Reported		

F25
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000016617**

Well ID:	1010007-216	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 082-1 RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-216&store_num=		
GeoTracker Data:	Not Reported		

F26
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021732**

Well ID:	1010007-364	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 082-2 (RAW)	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-364&store_num=		
GeoTracker Data:	Not Reported		

27
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000037265**

Well ID:	14S21E07H002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	14S21E07H002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=14S21E07H002M&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G28
North
1/2 - 1 Mile
Higher | **CA WELLS** | **12213**

Seq:	12213	Prim sta c:	14S/21E-07H03 M
Frds no:	1010007364	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 082-2	Station ty:	WELL/AMBNT/MUN
Latitude:	364359.0	Longitude:	1194300.0
Precision:	4	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

Sample date:	30-JAN-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	30-JAN-17	Finding:	3.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-JAN-17	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	30-JAN-17	Finding:	5.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	30-JAN-17	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	30-JAN-17	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	30-JAN-17	Finding:	4.1
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	30-JAN-17	Finding:	7.7
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	30-JAN-17	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	30-JAN-17	Finding:	7.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	17.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	76.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	3.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-17	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	270.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	30-JAN-17	Finding:	0.21
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-JAN-17	Finding:	0.11
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-17	Finding:	1.49
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-JUN-16	Finding:	2.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-NOV-14	Finding:	4.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-APR-14	Finding:	4.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-14	Finding:	6.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	28.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	03-APR-14	Finding:	7.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	75.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	110.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-14	Finding:	250.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	03-APR-14	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-14	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

29
WNW **CA WELLS** **CALLNL000001037**
1/2 - 1 Mile
Lower

Well ID:	101431	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	14S/21E-01P01 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Helium-3/Helium-4	Results:	.000000606175
Units:	atom ratio	Date:	05/27/2003
Chemical:	Neon	Results:	.000000208912
Units:	cm3STP/g	Date:	05/27/2003

Chemical:	Argon	Results:	.000337486
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Helium-4	Results:	.000000378423
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Krypton	Results:	.0000000749942
Units:	cm3STP/g	Date:	05/27/2003
Chemical:	Tritium (Hydrogen 3)	Results:	1.09
Units:	pCi/L	Date:	06/24/2003

G30
North
1/2 - 1 Mile
Higher

CA WELLS 12210

Seq:	12210	Prim sta c:	14S/21E-06Q02 M
Frds no:	1010007211	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 077	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	08-MAY-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	2.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAY-17	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-MAY-17	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-MAY-17	Finding:	10.

Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-MAY-17	Finding:	8.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAY-17	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	350.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	2.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	08-MAR-16	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-NOV-14	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	02-APR-14	Finding:	0.19
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	02-APR-14	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	13.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-APR-14	Finding:	8.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	16.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	17.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	140.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-APR-14	Finding:	340.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-APR-14	Finding:	2.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G31
North
1/2 - 1 Mile
Higher | **CA WELLS** | **12206**

Seq:	12206	Prim sta c:	14S/21E-05N01 M
Frds no:	1010001011	County:	10
District:	11	User id:	AGE
System no:	1010001	Water type:	G
Source nam:	WELL 11	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010001	System nam:	Bakman Wc - Fresno
Hqname:	Not Reported	Address:	P O BOX 7965
City:	FRESNO	State:	Not Reported
Zip:	93747	Zip ext:	Not Reported
Pop serv:	7000	Connection:	1981
Area serve:	FRESNO VIC		

Sample date:	20-JUL-15	Finding:	4400.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-MAY-15	Finding:	21.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	19-JAN-15	Finding:	20.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	27-OCT-14	Finding:	20.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	25-AUG-14	Finding:	21.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	25-AUG-14	Finding:	1.81
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	05-MAY-14	Finding:	21.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	22-JAN-14	Finding:	15.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	22-JAN-14	Finding:	5400.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	22-JAN-14	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	23.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JAN-14	Finding:	0.1
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	2.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	22-JAN-14	Finding:	82.9
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	22-JAN-14	Finding:	15.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-JAN-14	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	423.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	175.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	34.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	22.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-JAN-14	Finding:	0.5
Chemical:	SODIUM ABSORPTION RATIO	Report units:	Not Reported

Dlr:	0.		
Sample date:	22-JAN-14	Finding:	4.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-OCT-13	Finding:	21.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-SEP-13	Finding:	24.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAY-13	Finding:	0.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAY-13	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAY-13	Finding:	1.12
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-MAY-13	Finding:	23.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAR-13	Finding:	23.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-NOV-12	Finding:	22.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-12	Finding:	21.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAY-12	Finding:	22.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-12	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

G32
North
1/2 - 1 Mile
Higher

CA WELLS **23285**

Seq:	23285	Prim sta c:	K10/007-82TRTED
Frds no:	1010007286	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	SITE 082-1 (GAC)	Station ty:	WELL/AMBNT
Latitude:	364400.0	Longitude:	1194300.0

Precision:	3	Status:	AT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

G33
North
1/2 - 1 Mile
Higher

CA WELLS 12212

Seq:	12212	Prim sta c:	14S/21E-07H02 M
Frds no:	1010007216	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 082-1	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	364400.0	Longitude:	1194300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	30-DEC-15	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-SEP-14	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-14	Finding:	18.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	29-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	11.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	29-MAY-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	23.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	2.6
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	29-MAY-14	Finding:	3.1
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	29-MAY-14	Finding:	3.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	29-MAY-14	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	29-MAY-14	Finding:	4.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	29-MAY-14	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-MAY-14	Finding:	0.28
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	29-MAY-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-14	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-OCT-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-12	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-12	Finding:	2.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		

H34
NE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000020134**

Well ID:	1010007-035	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 224 - INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-035&store_num=		
GeoTracker Data:	Not Reported		

I35
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADPR0000002552**

Well ID:	84186	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	84186	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=84186&store_num=		
GeoTracker Data:	Not Reported		

I36
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00018981**

Well ID:	USGS-364200119420003	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364200119420003	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364200119420003&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I37
SSE **CA WELLS** **CAUSGSN00017162**
1/2 - 1 Mile
Lower

Well ID:	USGS-364200119420004	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364200119420004	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364200119420004&store_num=		
GeoTracker Data:	Not Reported		

I38
SSE **CA WELLS** **CAUSGS000000030**
1/2 - 1 Mile
Lower

Well ID:	KINGFP-01	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	KINGFP-01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=KINGFP-01&store_num=		
GeoTracker Data:	Not Reported		

I39
SSE **CA WELLS** **CAUSGSN00008633**
1/2 - 1 Mile
Lower

Well ID:	USGS-364200119420002	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364200119420002	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364200119420002&store_num=		
GeoTracker Data:	Not Reported		

I40
SSE **CA WELLS** **CAUSGSN00007398**
1/2 - 1 Mile
Lower

Well ID:	USGS-364200119420001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-364200119420001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-364200119420001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I41
SSE **CA WELLS** **CAUSGS000002300**
1/2 - 1 Mile
Lower

Well ID:	KINGFP-02	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	KINGFP-02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=KINGFP-02&store_num=		
GeoTracker Data:	Not Reported		

I42
SSE **CA WELLS** **CADDW0000011635**
1/2 - 1 Mile
Lower

Well ID:	1010007-348	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 180-1 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-348&store_num=		
GeoTracker Data:	Not Reported		

I43
SSE **CA WELLS** **CADDW0000018927**
1/2 - 1 Mile
Lower

Well ID:	1010007-349	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 180-2 - INF	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1010007-349&store_num=		
GeoTracker Data:	Not Reported		

H44
NE **CA WELLS** **12220**
1/2 - 1 Mile
Higher

Seq:	12220	Prim sta c:	14S/21E-08J01 M
Frds no:	1010007035	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 224	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364342.0	Longitude:	1194205.0
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of

Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	19-MAR-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-18	Finding:	9.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	14-MAR-18	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAR-18	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-FEB-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	9.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-FEB-18	Finding:	9.2e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	12-FEB-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-FEB-18	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JAN-18	Finding:	0.311
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	26-JAN-18	Finding:	3.02
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-JAN-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JAN-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JAN-18	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JAN-18	Finding:	8.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	05-JAN-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-DEC-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-DEC-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-DEC-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-17	Finding:	9.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	27-NOV-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-NOV-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-NOV-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-NOV-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-17	Finding:	9.5e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	30-OCT-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-OCT-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-OCT-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	9.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	26-SEP-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-SEP-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-17	Finding:	8.7e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	28-AUG-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-AUG-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-AUG-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-AUG-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-AUG-17	Finding:	9.e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	31-JUL-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JUL-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUL-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUL-17	Finding:	9.4e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-JUL-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUN-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUN-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-MAY-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-MAY-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-MAY-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-MAY-17	Finding:	8.3e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L

Dlr:	1.e-002		
Sample date:	01-MAY-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-17	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-APR-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-MAR-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAR-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	64.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	37.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	32.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	31.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	03-MAR-17	Finding:	2.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-MAR-17	Finding:	9.9e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	03-MAR-17	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	0.62
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	7.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	310.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	350.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	290.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	680.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-MAR-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-FEB-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-17	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JAN-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-17	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JAN-17	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-DEC-16	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-16	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-DEC-16	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-NOV-16	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-16	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-AUG-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-AUG-16	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	10-AUG-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-16	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUL-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUN-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUN-16	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	7.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-MAY-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-16	Finding:	8.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAY-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	19-APR-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	8.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAR-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-16	Finding:	8.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-16	Finding:	8.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-16	Finding:	8.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	8.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-FEB-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-FEB-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-16	Finding:	8.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	06-JAN-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-DEC-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-DEC-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-DEC-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-NOV-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-NOV-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-NOV-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-NOV-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-NOV-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-OCT-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-OCT-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	15-SEP-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-SEP-15	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-AUG-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-AUG-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JUL-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JUL-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUL-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUL-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	02-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-MAY-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-MAY-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAY-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAY-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-APR-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-MAR-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAR-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAR-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-FEB-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-FEB-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	11-FEB-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-FEB-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JAN-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JAN-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JAN-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JAN-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-DEC-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-DEC-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-NOV-14	Finding:	3.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	24-NOV-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-NOV-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-NOV-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	06-NOV-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-OCT-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-OCT-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-AUG-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-AUG-14	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-AUG-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-14	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-14	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUL-14	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	17-JUL-14	Finding:	460.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-14	Finding:	43.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-JUL-14	Finding:	28.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	35.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	42.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	69.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	350.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	390.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	320.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	780.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	6.7
Chemical:	TRICHLOROFLUOROMETHANE	Report units:	UG/L
Dlr:	5.		

Sample date:	07-JUL-14	Finding:	500.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	0.78
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-JUL-14	Finding:	130.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	18-JUL-13	Finding:	9.38
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	18-JUL-13	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUL-13	Finding:	6.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-JUL-13	Finding:	0.479
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-NOV-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-NOV-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-OCT-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	24-SEP-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-SEP-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-AUG-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-AUG-12	Finding:	40.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-AUG-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUL-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUL-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	15-JUN-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JUN-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAY-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAY-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-APR-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-12	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAR-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-FEB-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-FEB-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	14-FEB-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-FEB-12	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JAN-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JAN-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

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SE
1/2 - 1 Mile
Higher

CA WELLS 12244

Seq:	12244	Prim sta c:	14S/21E-17R02 M
Frds no:	1010007349	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 180-2	Station ty:	WELL/AMBNT/MUN
Latitude:	364240.0	Longitude:	1194212.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	26-SEP-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-SEP-17	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	16.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	19-SEP-17	Finding:	940.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	300.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	370.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-SEP-17	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-SEP-17	Finding:	0.84
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	600.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	2.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-SEP-17	Finding:	130.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	19-SEP-17	Finding:	92.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-SEP-17	Finding:	37.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	50.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	46.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	85.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	19-SEP-17	Finding:	400.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-SEP-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-SEP-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-SEP-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-AUG-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-AUG-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-AUG-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JUL-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUL-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUL-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUL-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUN-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-JUN-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-JUN-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUN-17	Finding:	18.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-MAY-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-MAY-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-MAY-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-APR-17	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-MAR-17	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-17	Finding:	18.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JUN-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-APR-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-MAR-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAR-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-FEB-16	Finding:	17.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-FEB-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-FEB-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	28-JAN-16	Finding:	16.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-DEC-15	Finding:	73.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-DEC-15	Finding:	72.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-15	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-NOV-15	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-NOV-15	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-NOV-15	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-NOV-15	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-NOV-15	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-OCT-15	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-OCT-15	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-15	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-15	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-15	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	15-SEP-15	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-SEP-15	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-AUG-15	Finding:	64.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-MAY-14	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-14	Finding:	390.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-MAY-14	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAY-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-14	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-14	Finding:	79.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	42.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	46.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	79.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-MAY-14	Finding:	120.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	01-MAY-14	Finding:	580.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	01-MAY-14	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	370.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	360.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	300.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	880.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	35.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-APR-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-APR-14	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-APR-14	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-APR-14	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAR-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAR-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-14	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	24-FEB-14	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-FEB-14	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-FEB-14	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-FEB-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JAN-14	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JAN-14	Finding:	72.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JAN-14	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JAN-14	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-DEC-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-DEC-13	Finding:	73.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-NOV-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-NOV-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	13-NOV-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-NOV-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-OCT-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-OCT-13	Finding:	72.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-OCT-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-OCT-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-SEP-13	Finding:	72.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-AUG-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-13	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	22-JUL-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	73.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUN-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-MAY-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAY-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-13	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-APR-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-13	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	08-APR-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-APR-13	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-DEC-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-NOV-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-NOV-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-NOV-12	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-NOV-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-12	Finding:	72.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-SEP-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	05-SEP-12	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-AUG-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-AUG-12	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUL-12	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUL-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-12	Finding:	65.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	65.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-12	Finding:	65.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUN-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JUN-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	21-MAY-12	Finding:	71.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAY-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-APR-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-FEB-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-FEB-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-FEB-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-FEB-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	30-JAN-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JAN-12	Finding:	65.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-12	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JAN-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

46
East
1/2 - 1 Mile
Higher

CA WELLS 12233

Seq:	12233	Prim sta c:	14S/21E-16D01 M
Frds no:	1010007319	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 184	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364318.0	Longitude:	1194152.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET
City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		
Sample date:	21-FEB-18	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-FEB-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-FEB-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-FEB-18	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-JAN-18	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JAN-18	Finding:	0.365
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-JAN-18	Finding:	4.53
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	26-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JAN-18	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JAN-18	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JAN-18	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JAN-18	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-DEC-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-DEC-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-DEC-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-DEC-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-NOV-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-NOV-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-NOV-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	30-OCT-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-OCT-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-OCT-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-OCT-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-SEP-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-SEP-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-SEP-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-17	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-AUG-17	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-AUG-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-AUG-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	18-JUL-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUL-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUN-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-MAY-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-MAY-17	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAY-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-APR-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-17	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-APR-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-APR-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	27-MAR-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAR-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	28-FEB-17	Finding:	0.25
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	2.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-FEB-17	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	28-FEB-17	Finding:	27.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	28-FEB-17	Finding:	21.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	26.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	28-FEB-17	Finding:	46.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-FEB-17	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	7.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-FEB-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-FEB-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-FEB-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	30-JAN-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-JAN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JAN-17	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	04-JAN-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-DEC-16	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-DEC-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-16	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-NOV-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-NOV-16	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-NOV-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-OCT-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-OCT-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-16	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-SEP-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-SEP-16	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-SEP-16	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-AUG-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-16	Finding:	3.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	05-AUG-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-JUL-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUN-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUN-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-MAY-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	23-MAY-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAY-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-APR-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-APR-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAR-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-MAR-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAR-16	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-FEB-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-FEB-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-FEB-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-JAN-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-16	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JAN-16	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-DEC-15	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-DEC-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-NOV-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-NOV-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-NOV-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-NOV-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-NOV-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-OCT-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	19-OCT-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-OCT-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-15	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-AUG-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-AUG-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-AUG-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JUL-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JUL-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUL-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	08-JUL-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUN-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JUN-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUN-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUN-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUN-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-MAY-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-MAY-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAY-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-APR-15	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-APR-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-15	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-MAR-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAR-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	16-MAR-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAR-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-FEB-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-FEB-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-FEB-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-15	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JAN-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-DEC-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-DEC-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-NOV-14	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	24-NOV-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	18-NOV-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-NOV-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-NOV-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-OCT-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-OCT-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-AUG-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-AUG-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-AUG-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	29-JUL-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUL-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUL-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-MAY-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAY-14	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-14	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	24.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	01-MAY-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	23.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	41.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	0.55
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-APR-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-APR-14	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	09-APR-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAR-14	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JAN-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-DEC-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-DEC-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-NOV-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-NOV-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-NOV-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-NOV-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-OCT-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-OCT-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	14-OCT-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-SEP-13	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-AUG-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-AUG-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JUL-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JUL-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-JUL-13	Finding:	4.97
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	12-JUL-13	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-JUL-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUL-13	Finding:	0.348
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUN-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-MAY-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAY-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAY-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAY-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-APR-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-APR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	09-APR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-APR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-MAR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-FEB-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-FEB-13	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-FEB-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JAN-13	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JAN-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JAN-13	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-DEC-12	Finding:	28.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-DEC-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	26-NOV-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-NOV-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-NOV-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-NOV-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-SEP-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-SEP-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	14-AUG-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-AUG-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUL-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUL-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUL-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUN-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAY-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAY-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	24-APR-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-APR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-MAR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-MAR-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-MAR-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-FEB-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-FEB-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-FEB-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-FEB-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JAN-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JAN-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	11-JAN-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	03-JAN-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

47
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000176997**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	014S021E08B001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	90
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:	1963-10-21
Feet below surface:	52.82	Feet to sea level:	Not Reported
Note:	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
93727	20	0

Federal EPA Radon Zone for FRESNO County: 2

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 Zip Code: 93727

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.433 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
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 E

Preliminary Screen for Vapor Encroachment Conditions Matrix

Screen for Vapor Encroachment Conditions Matrix
SOUTHEAST FRESNO REGIONAL PARK PROPERTY
WKA No. 12987.01

Phase I ESA Screen for Vapor Encroachment Conditions (VEC) matrix includes a (1) **Search Radius Test,** (2) **Chemicals of Concern Test (COC),** and (3) a **Critical Distance Test**[1].

(1) Search Radius Test: Are there any known or suspect contaminated sites in the primary area of concern within the corresponding search radii? (if yes, see attached Table A).

Yes (No) If No, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If Yes, then:

(2) **Chemicals of Concern**[2] **Test**: Are COC likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

Yes No If No, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If Yes, then:

If Yes, check all COC that apply on attached Table B.

(3) Critical Distance Test: A plume test to determine whether or not COC in the contaminated plume(s) may be within the critical distance.

(3a) Is information related to the contaminated(s) plume available (i.e. isoconcentration maps, site drawings, etc.)?
Yes No

(3b) If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)?
Yes No

(3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)?
Yes No

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?
Yes (No) If *Yes,* then recommend performing a full scope VEC assessment according to ASTM E 2600-15.

[1] Based on guidance presented in the ASTM E 2600-15 Standard.
[2] Chemical(s) of concern (COC): See attached table for typical chemicals of concern (as presented in Appendix X6.1 of the ASTM E 2600-15 Standard).

Appendix D

Water Supply Assessment

FINAL REPORT | MARCH 2021

Southeast Fresno Regional Park and Soccer Complex Water Supply Assessment

PREPARED FOR

City of Fresno

PREPARED BY

WEST YOST
Water. Engineered.

Southeast Fresno Regional Park and Soccer Complex Water Supply Assessment

Prepared for

City of Fresno

Project No. 487-60-20-24



Project Manager: James P. Connell, PE	March 2, 2021 Date
QA/QC Review: Elizabeth T. Drayer, PE	March 2, 2021 Date

WEST YOST
Water. Engineered.

FINAL REPORT | MARCH 2021

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LIST OF ACRONYMS AND ABBREVIATIONS

af/yr	Acre-feet per year
CASGEM	California Statewide Groundwater Elevation Monitoring
CEQA	California Environmental Quality Act
City	City of Fresno
CVP	Central Valley Project
DWR	Department of Water Resources
EIR	Environmental Impact Report
FARGMP	Fresno Area Regional Groundwater Management Plan
FID	Fresno Irrigation District
GSP	Groundwater Sustainability Plan
mgd	Million gallons per day
NESWTF	Northeast Surface Water Treatment Facility
NFWRF	North Fresno Wastewater Reclamation Facility
NKGSA	North Kings Groundwater Sustainability Agency
Proposed Project	Proposed Regional Park and Soccer Complex
RWRF	Fresno/Clovis Regional Wastewater Reclamation Facility
SB 221	Senate Bill 221
SB 610	Senate Bill 610
SEFCEDA	Southeast Fresno Community Economic Development Association, Inc.
SESWTF	Southeast Surface Water Treatment Facility
SGMA	Sustainable Groundwater Management Act
SOI	Sphere of Influence
SWRCB	State Water Resources Control Board
USBR	United States Bureau of Reclamation
UWMP	Urban Water Management Plan
WSA	Water Supply Assessment
WSCP	Water Shortage Contingency Plan

EXECUTIVE SUMMARY

Purpose of Water Supply Assessment

The purpose of this Water Supply Assessment (WSA) is to perform the evaluation required by California Water Code sections 10910 through 10915, as established by Senate Bill 610 (SB 610), in connection with the City of Fresno's (City) proposed Southeast Fresno Regional Park and Soccer Complex (Proposed Project), and to support the Environmental Impact Report (EIR) being prepared for the Proposed Project. This WSA evaluates the adequacy of the City's total projected water supplies, including existing water supplies and future planned water supplies, to meet the City's existing and projected future water demands, including those future water demands associated with the Proposed Project, under all hydrologic conditions (Normal Years, Single Dry Years, and Multiple Dry Years).

Proposed Project Overview

The Proposed Project is located within the City's Sphere of Influence (SOI) and the City Limits. The Proposed Project area encompasses approximately 49 acres of land located in the southeast of the City at 2155 South Peach Avenue. This 49-acre site is split by a 60-foot wide Southern Pacific Railroad parcel, with 18.5 acres to the north and 30.5 acres to the south. The northern parcel will include a regional park with a community center, trails and open space, a pre-existing 4.5-acre community garden, and several outdoor sports facilities. The southern parcel will include a soccer complex with six turf grass soccer fields, and two synthetic grass soccer fields.

The Proposed Project does not meet the definition of a "Project" per California Water Code sections 10910 through 10915, as established by SB 610 in 2001, but the City has requested that a WSA be prepared (see Section 3.1 below).

Water Demands and Supply Availability

Projected water demands for buildout of the Proposed Project total approximately 71.8 acre-feet per year (af/yr). It is anticipated that the Proposed Project, if approved by the City, would be served from the City's existing and future portfolio of water supplies. The City currently receives water from four water supply sources:

- Surface water that is delivered to the City by two separate sources:
  - Fresno Irrigation District (FID) Agreement for Kings River water.
  - United States Bureau of Reclamation (USBR) Central Valley Project (CVP) Friant Division Contract for San Joaquin River water.
- Groundwater that is pumped from groundwater wells located within the City.
- Recycled water that is treated at the Fresno/Clovis Regional Wastewater Reclamation Facility (RWRF) and North Fresno Wastewater Reclamation Facility (NFWRF). This water may be used for non-potable uses.

The City has always met system water demand, regardless of regional hydrology. The City expects reductions from normal-year water supply during single or multiple dry years, but is still projected to meet existing and projected water demands. In the event of a water shortage, the City would implement demand reduction measures as outlined in its Water Shortage Contingency Plan, which would apply to all customers, including those within the Proposed Project area. The projected available water supplies and water demands (including the Proposed Project) through 2040 are shown in Table ES-1. As shown in Table ES-1, available water supplies are more than sufficient to meet the projected water demands for the next 20 years.

Pursuant to Water Code section 10910(c)(4), and based on the technical analyses described in this Water Supply Assessment, this Water Supply Assessment demonstrates that the City's existing and additional planned future water supplies are sufficient to meet the City's existing and projected future water demands, including those future water demands associated with the Proposed Project, to the year 2040 under all hydrologic conditions (including Normal Years, Single Dry Years, and Multiple Dry Years).

Water Supply Assessment Approval Process

It is recommended the City include this WSA in the Draft EIR that is being prepared for the Proposed Project.

It should be noted that the Proposed Project does not include any residential dwelling units and therefore is not subject to the requirements of SB 221 (Government Code section 66473.7).

Table ES-1. City of Fresno Water Demand Versus Water Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years, af/yr

Hydrologic Condition		2020	2025	2030	2035	2040
Normal Year						
Available Water Supply[(a)]		308,700	329,900	342,000	354,100	366,200
Total Water Demand[(b)]		235,700	264,000	274,100	292,900	301,100
	Potential Surplus (Deficit)	73,000	65,900	67,900	61,200	65,100
	Percent Shortfall of Demand	-	-	-	-	-
Single Dry Year						
Available Water Supply[(c)]		198,000	216,400	225,800	235,200	244,500
Total Water Demand[(d)]		179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	18,100	11,000	12,900	6,100	10,000
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Years						
Multiple Dry Year 1	Available Water Supply[(e)]	260,900	280,900	291,800	302,700	313,600
	Total Water Demand[(d)]	213,800	217,800	229,300	229,100	234,500
	Potential Surplus (Deficit)	47,100	63,100	62,500	73,600	79,100
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 2	Available Water Supply[(e)]	271,500	291,700	302,800	313,900	325,000
	Total Water Demand[(d)]	225,100	229,200	240,900	231,800	241,400
	Potential Surplus (Deficit)	46,400	62,500	61,900	82,100	83,600
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 3	Available Water Supply[(e)]	219,200	238,600	249,000	259,400	269,700
	Total Water Demand[(d)]	179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	39,300	33,200	36,100	30,300	35,200
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 4	Available Water Supply[(e)]	198,000	216,400	225,800	235,200	244,500
	Total Water Demand[(d)]	179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	18,100	11,000	12,900	6,100	10,000
	Percent Shortfall of Demand	-	-	-	-	-

(a) From the City of Fresno 2015 UWMP, Table 7-5.
(b) From the City of Fresno 2015 UWMP, Table 4-5.
(c) From the City of Fresno 2015 UWMP, Table 7-6.
(d) From Table 5-3 of this WSA.
(e) From the City of Fresno 2015 UWMP, Table 7-9.

1.0 INTRODUCTION

1.1 Legal Requirement for a Water Supply Assessment

California Senate Bill 610 (SB 610) and Senate Bill 221 (SB 221) amended state law, effective January 1, 2002, to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 and SB 221 were companion measures which sought to promote more collaborative planning between local water suppliers and cities and counties. Both statutes require detailed information regarding water availability to be provided to the city and county decision-makers prior to approval of specified large development projects. The purpose of this coordination is to ensure that prudent water supply planning has been conducted, and that planned water supplies are adequate to meet existing demands, anticipated demands from approved projects and tentative maps, and the demands of proposed projects.

SB 610 amended California Water Code sections 10910 through 10915 (inclusive) to require land use lead agencies to:

- Identify any public water purveyor that may supply water for a proposed development project; and
- Request a WSA from the identified water purveyor.

The purpose of the WSA is to demonstrate the sufficiency of the purveyor's water supplies to satisfy the water demands of the proposed project, while still meeting the water purveyor's existing and planned future uses. Water Code sections 10910 through 10915 delineate the specific information that must be included in the WSA.

1.2 Need for and Purpose of Water Supply Assessment

The purpose of this WSA is to perform the evaluation required by Water Code sections 10910 through 10915 in connection with the City's proposed Southeast Fresno Regional Park and Soccer Complex (Proposed Project). It is not to reserve water, or to function as a "will serve" letter or any other form of commitment to supply water (see Water Code section 10914). The provision of water service will continue to be undertaken in a manner consistent with applicable City policies and procedures, consistent with existing law.

1.3 Water Supply Assessment Preparation, Format and Organization

The format of this WSA is intended to follow Water Code sections 10910 through 10915 to clearly delineate compliance with the specific requirements for a WSA. The WSA includes the following sections:

- Section 1: Introduction
- Section 2: Description of Proposed Project
- Section 3: Required Determinations
- Section 4: City of Fresno Water Service Area
- Section 5: City of Fresno Water Demands
- Section 6: City of Fresno Water Supplies
- Section 7: Determination of Water Supply Sufficiency Based on the Requirements of SB 610
- Section 8: Water Supply Assessment Approval Process
- Section 9: References

Relevant citations of Water Code sections 10910 through 10915 are included throughout this WSA in *italics* to demonstrate compliance with the specific requirements of SB 610.

It should be noted that the Proposed Project does not include any residential dwelling units and therefore is not subject to the requirements of SB 221 (Government Code section 66473.7).

2.0 DESCRIPTION OF PROPOSED PROJECT

2.1 Proposed Project Location

The Proposed Project is located within the City's Sphere of Influence (SOI) and the City Limits. Figure 2-1 shows the Proposed Project location in relation to the City limits. The Proposed Project area encompasses approximately 49 acres of land located in the southeast of the City at 2155 South Peach Avenue. This 49-acre site is split by a 60-foot wide Southern Pacific Railroad parcel, with 18.5 acres to the north and 30.5 acres to the south. The land is predominantly vacant with the exception of a few small structures and a 4-5-acre community garden[1].

On October 30, 2006 the US National Park Service transferred title of a 49-acre park site to the City under a Property Title Transfer Agreement that commits the City to build a park and recreation facilities on this site. The Operational Statement and Conceptual Plan for the park developed by the Southeast Fresno Community Economic Development Association, Inc. (SEFCEDA), shows a regional park on the northern parcel and a soccer complex on the southern parcel. The regional park will include a combination of community open space, trails, four outdoor hard-court sport surfaces, a softball diamond, an ornamental landscape buffer, a dog park, and small buildings for office space, maintenance, and storage. In addition, a new community center will be constructed to supplement the activities provided at this park site. The southern parcel will contain two synthetic grass and six natural grass soccer fields. The Proposed Project will also include necessary parking, transportation, and utility improvements.

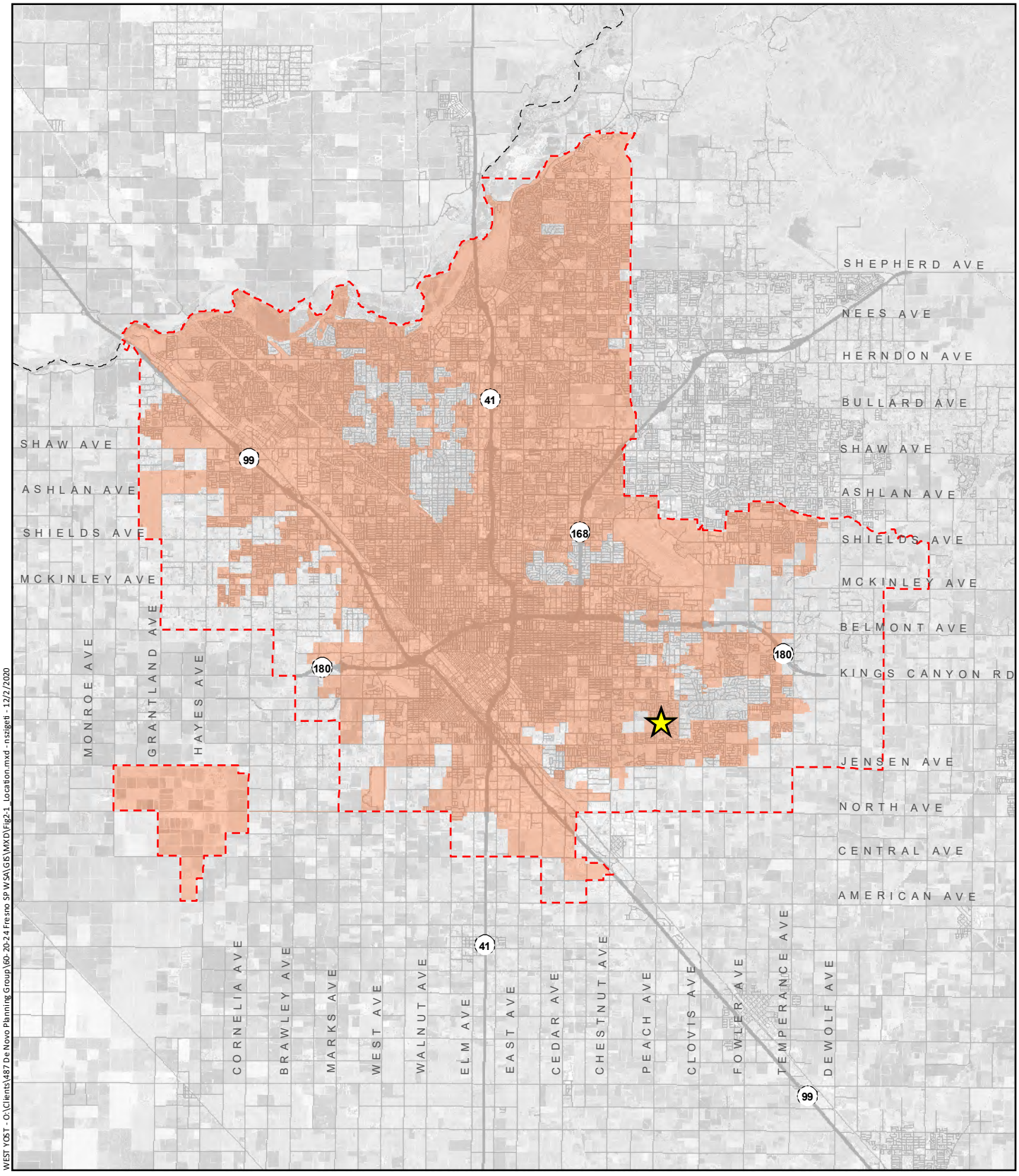
Figure 2-2 shows the conceptual site plan for the Proposed Project developed by SEFCEDA. It should be noted that this WSA evaluates buildout of the Proposed Project, and not any planned phasing.

2.2 Proposed Land Uses

The Proposed Project will feature a regional park on the northern 18.5-acre parcel and a soccer complex on the 30.5-acre parcel. According to the City's 2014 General Plan, regional parks are expected to serve a population of approximately 100,000 residents of the City and the surrounding region[2]. The Proposed Project is expected to host organized sports leagues and tournaments approximately 87 percent of the time, along with an on-going use of the facilities and open space by community residents. As parks are designated in the General Plan as "Open Space," the water demand for the Proposed Project estimated in Section 2.3 is based on projected irrigation demand and expected annual visitors to the park.

[1] City of Fresno. Operational Statement and Conceptual Plan of Phase 1 and Future Phases. Received July 2020.

[2] Dyett & Bhatia, *City of Fresno General Plan*, prepared for the City of Fresno, December 2014.



Symbology

- Project Location
- Fresno City Limits
- Sphere of Influence
- County Line

N

0 1.5 Miles

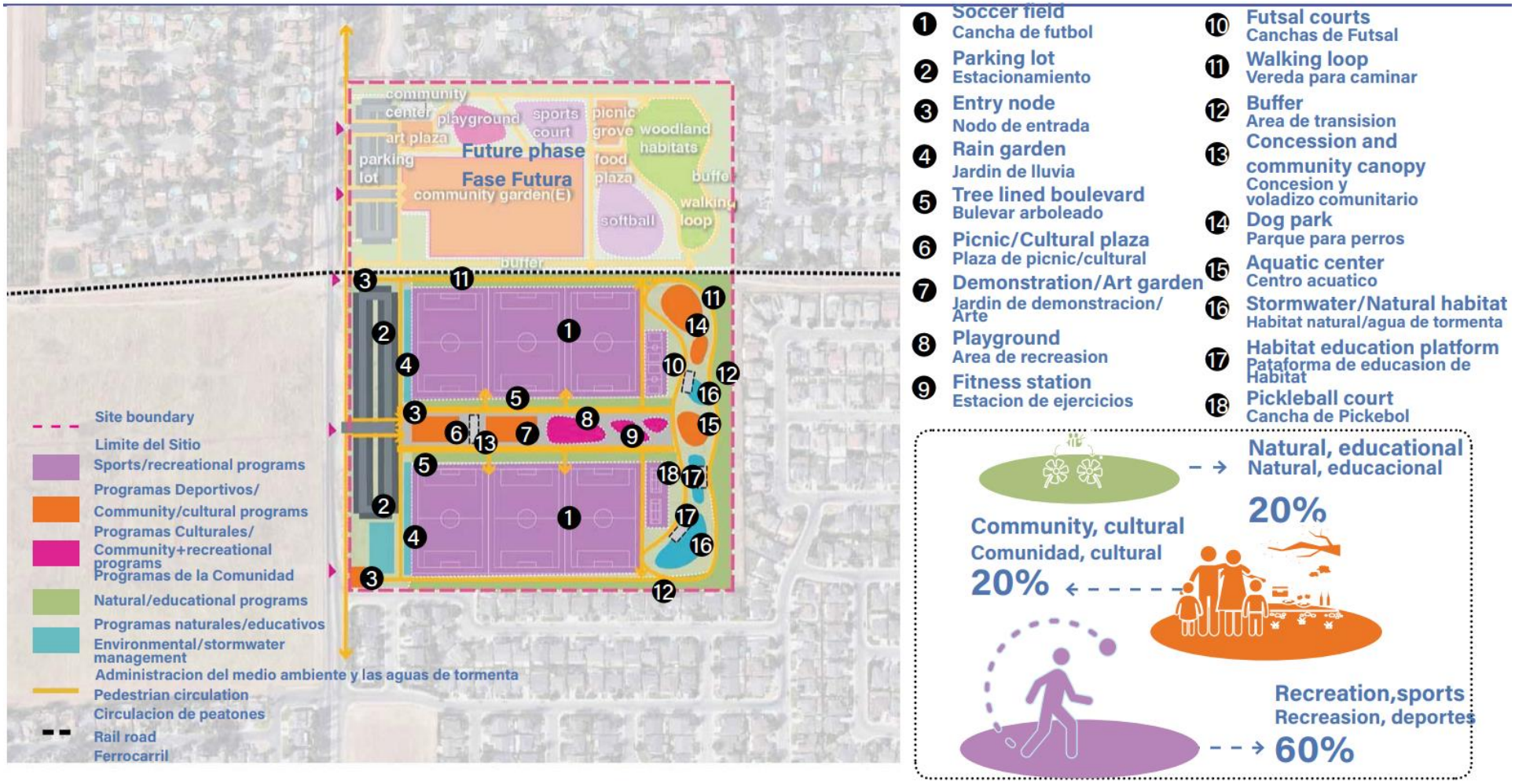
WEST YOST

Figure 2-1

Project Location

City of Fresno
Southeast Fresno Regional Park
Water Supply Assessment

Figure 1-1. Project Site



Source: Conceptual Master Plan prepared October 2020 for SEFCEDA by WRT Planning and Design.

2.3 Projected Water Demand

Projected water demands for buildout of the Proposed Project total approximately 71.8 af/yr. This includes 10 percent unaccounted for water (UAFW) per the City's Water Master Plan. It is expected that all of the water demands from the Proposed Project will be served by the City's existing potable water system.

It should be noted that the water demand associated with the existing community garden is not expected to change at buildout of the Proposed Project and was not included in this analysis.

2.3.1 Irrigation Demand

Irrigation demand for the Proposed Project is divided between spray-irrigated turf grass (six grass soccer fields and the outfield portion of the softball field) and drip-irrigated open space. It is assumed that 100 percent of the gross turf grass area is irrigated and 20 percent of gross open space area would be irrigated. The calculations shown in Table 2-1 are based on the average annual evapotranspiration of 56.3 inches for the City, and the variable efficiency of spray and drip irrigation.

Table 2-1. Projected Irrigation Demand

Irrigated Area	Gross Area (acres)[a]	Percent Irrigable	Irrigation Efficiency[b]	Plant Factor[b]	Demand (af/yr)
Turf Grass	12.81	100	0.75	0.7	55.8
Open Space	5.85	20	0.81	0.5	3.4
				Total	**59.2**
				Total with 10 Percent UAFW	**65.8**

(a) Area estimated using GIS based on conceptual site plan.
(b) CA Department of Water Resources. *A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California.* August 2000.

2.3.2 Facility Water Demands

A majority of non-irrigated water demand is expected from visitor use of the Proposed Project facilities. This includes restrooms, drinking fountains, and other miscellaneous facilities. Table 2-2 summarizes these demand calculations for the Proposed Project.

Table 2-2. Projected Facilities Demand

Irrigated Area	Quantity	Unit	Demand Factor	Demand Factor Unit	Demand (af/yr)
Visitors (Sports/Recreation)[a]	210,624	Visitors/yr	3	gal/visitor	1.94
Concessions and Community Center[b]	1.83	acre	1.9[c]	af/ac/yr	3.47
				Total	**5.41**
				Total with 10 Percent UAFW	**6.01**

(a) Correspondence with City of Fresno planning staff.
(b) Area estimated using GIS based on conceptual site plan.
(c) Commercial/Retail Water Demand Factor from City Water Master Plan

3.0 REQUIRED DETERMINATIONS

3.1 Does SB 610 apply to the Proposed Project?

10910 (a) Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) under Section 21080 of the Public Resources Code shall comply with this part.

10912 (a) "Project" means any of the following:

(1) A proposed residential development of more than 500 dwelling units.

(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.

(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.

(4) A proposed hotel or motel, or both, having more than 500 rooms.

(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.

(6) A mixed-use project that includes one or more of the projects specified in this subdivision.

(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project.

Based on the following facts, SB 610 does not apply to the Proposed Project.

- The City has determined that the Proposed Project is subject to the California Environmental Quality Act (CEQA) and that an Environmental Impact Report (EIR) is required.
- The Project does not meet any of the definitions listed above.

However, the City has requested that a WSA be prepared to document projected water demand and available water supply.

The Proposed Project has not been the subject of a previously adopted WSA and has not been included in an adopted WSA for a larger project.

3.2 Who is the Identified Public Water System?

10910(b) The city or county, at the time that it determines whether an environmental impact report, a negative declaration, or a mitigated negative declaration is required for any project subject to the California Environmental Quality Act pursuant to Section 21080.1 of the Public Resources Code, shall identify any water system that is, or may become as a result of supplying water to the project identified pursuant to this subdivision, a public water system, as defined by Section 10912, that may supply water for the project

10912 (c) "Public water system" means a system for the provision of piped water to the public for human consumption that has 3,000 or more service connections…

As shown on Figure 2-1, the Proposed Project is located within the City limits. The City's water system service area includes most areas within the City Limits. Therefore, the City is the identified public water system for the Proposed Project.

3.3 Does the City have an adopted Urban Water Management Plan (UWMP) and does the UWMP include the projected water demand for the Proposed Project?

10910(c)(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).

The City's most recently adopted UWMP was adopted by the City's Council in June 2016 and is incorporated by reference into this WSA[3]. The City's 2015 UWMP included water demand projections for current water demands within the City (baseline demand) and anticipated water demands associated with future development projects and planning areas within the City's General Plan SOI through 2040.

Water demands for the Proposed Project are not specifically designated in the City's 2015 UWMP. However, General Plan land uses were used to forecast water demand in the UWMP, and the Proposed Project is included in the General Plan. Therefore, the proposed project was accounted for in the City's 2015 UWMP. The City's ability to meet the projected water demands for the Proposed Project is described in Section 7.0 of this WSA.

It should be noted that the City is also including the projected water demands for the Proposed Project in its 2020 UWMP Update that is currently being prepared.

[3] City of Fresno 2015 Urban Water Management Plan, prepared by Provost & Pritchard, June 2016.

4.0 CITY OF FRESNO WATER SERVICE AREA

4.1 Water Service Area

The City is located in San Joaquin Valley in Fresno County, California, and was incorporated in 1885. The existing incorporated area of the City encompasses approximately 128 square miles (2015 UWMP). The City's General Plan includes the City's SOI, the area outside of the City limits that the City expects to annex and urbanize in the future.

With a few exceptions, the City's water service area is coterminous with the City limits. As future developments within the SOI, but outside the City limits, are approved, they will be annexed into the City and served by the City water system. Figure 2-1 illustrates the current City Limits and the SOI.

4.2 Population

The City was founded in 1885 in the heart of the nation's richest agricultural county and has historically been one of the fastest growing cities in the United States. According to the U.S. Census, the City's population was 354,282 in 1990, 427,652 in 2000, and 494,665 in 2010. The water service area though does not completely coincide with the City's annexed boundaries, so the Water Division developed a service area population tracking spreadsheet around 2002 based on 2000 census tract data and projected population growth based on Department of Finance annual increases for the City. The tracking spreadsheet had service area populations of 438,381 in 2000, and 503,127 in 2010. The service area population in 2015 was 517,748 and moving forward, the annual growth rate is projected to average approximately 1.85 percent, with the City's population projected to reach 824,000 by 2040.

Table 4-1 shows the City's projected population in five-year increments to the year 2040.

Table 4-1. City of Fresno Existing and Projected Population

Years	2015	2020	2025	2030	2035	2040
Population Projection[a]	517,748[b]	575,034	629,146	688,351	753,128	824,000

(a) From the City of Fresno 2015 UWMP, Table 3-3.
(b) Actual 2015 Population in UWMP based on Department of Water Resources correspondence.

4.3 Climate

The City has cool, humid winters, and hot, dry summers. Based on the historical data obtained from the California Irrigation Management Information System, the City's average monthly temperature ranges from 50.4 to 76.5°F, over the time period from 1988 to 2015. The rainy season typically begins in November and ends in March. Average monthly precipitation during the winter months is about 1 to 2 inches, and the total annual average of 10.9 inches. Water demands during the winter are low relative to summer months (May to September). The combination of hot and dry weather during the summer results in high water demands during these periods. Landscape irrigation, including turf irrigation in the summer, significantly contributes to the higher summer demands.

Evapotranspiration records, which measure the loss of water from the soil both by evaporation and by transpiration from the plants growing thereon, indicate average monthly values ranging from 1.07 inches during December to 8.71 inches in July.

Table 4-2 summarizes the City's average temperature and rainfall data, which was obtained from the City's 2015 UWMP.

Table 4-2. City of Fresno Climate Data[a]

Month	Average ET_o, inches	Average Rainfall, inches	Average Min Temperature, F	Average Max Temperature, F
January	1.14	2.09	37.6	54.6
February	1.92	1.90	40.7	61.5
March	3.68	1.89	43.8	67.0
April	5.36	1.03	48.0	74.4
May	7.34	0.36	54.3	83.5
June	8.32	0.16	60.5	91.7
July	8.71	0.01	65.7	98.3
August	7.74	0.01	64.0	96.4
September	5.62	0.15	59.7	90.8
October	3.62	0.53	51.2	79.7
November	1.79	1.13	42.4	65.3
December	1.07	1.64	37.3	54.7
Annual Totals/Average	**56.31**	**10.90[b]**	**50.4**	**76.5**

(a) From the City of Fresno 2015 UWMP, Table 3-2.
(b) Due to rounding, value differs slightly from UWMP.

5.0 CITY OF FRESNO WATER DEMANDS

> *10910(c)(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*

The descriptions provided below for the City's water demands have been taken, for the most part, from the City's 2015 UWMP, which was adopted in June 2016. Supplemental information from other available reports has been included to provide the most recent data available and to meet the specific requirements of SB 610.

5.1 Historical and Existing Water Demand

In recent years, the City's water demand has decreased as a result of the economic downturn of 2008 through 2011, water use reductions in response to recent drought conditions, and metering of residential properties. Table 5-1 shows the City's historical water demands for 2005, 2010, and 2015-2019.

Table 5-1. Historical Water Demand, af/yr

	2005[a]	2010[b]	2015[b]	2016[c]	2017[c]	2018[c]	2019[c]
Total Potable and Raw Water Demand	157,278	199,168	132,844	112,269	121,079	120,065	115,544

(a) Historical Water Delivery data for 2005 is from the City of Fresno Water Master Plan, Table 3-6 Footnote (b).
(b) Historical Water Delivery data for 2010 and 2015 is from the City of Fresno 2015 UWMP, Table 4-2, Table 4-3, and Table 6-10.
(c) Historical Water Delivery data for 2016-2019 was provided by City staff 2/25/2021.

5.2 Future Water Demand

As shown in Table 5-2, the City's water demand is projected to increase by over 20 percent through 2040.

Table 5-2. Projected Future Water Demand, af/yr

Demand Projection Source	2020	2025	2030	2035	2040
2015 UWMP	214,500	229,600	239,700	254,300	262,500

Source: City of Fresno 2015 UWMP, Table 4-4, June 2016.

5.3 Dry Year Water Demand

As shown in Table 5-1, the City's 2015 water demand was significantly lower than the 2010 demand in response to the drought and the Governor's April 2015 Executive Order B-29-15 mandating 25 percent water conservation statewide. To reduce water use by 25 percent statewide, the SWRCB adopted a regulation which placed each urban water supplier into one of nine tiers which are assigned a conservation standard, ranging between 4 percent and 36 percent. Each month, the SWRCB compared every urban water suppliers' water use with their use for the same month in 2013 to determine if they were on track for meeting their conservation standard. The City was initially placed into Tier 7 with a water conservation

standard of 28 percent as compared to 2013 use (the City's conservation standard was reduced to 25 percent in early 2016) (SWRCB, 2015; SWRCB, 2016).

The City has adopted a set of restrictions on water usage that helps promote water conservation and overall water use consumption. The City Municipal Code contains sections on water conservation that are to take place under normal water supply conditions. These measures are mandated year round, and can be found in detail in Section 6-520(a) of the City's Municipal Code. The City's Water Shortage Contingency Plan, outlined in Section 8 of the City's 2015 UWMP, includes a four-stage plan describing specific actions to reduce water demand by up to 50 percent in the event of a water supply shortage or emergency. Demand is expected to decrease as the City implements water conservation measures in response to multiple dry years or other supply changes. (City of Fresno 2015 UWMP).

Table 5-3 presents the projected future dry year potable water demand.

Table 5-3. Projected Future Dry Year Water Demand, af/yr

Hydrologic Condition	2020	2025	2030	2035	2040
Single Dry Year[a]	179,900	205,400	212,900	229,100	234,500
Multiple Dry Years First Year[b]	213,800	217,800	229,300	229,100	234,500
Multiple Dry Years Second Year[b]	225,100	229,200	240,900	231,800	241,400
Multiple Dry Years Third Year[b]	179,900	205,400	212,900	229,100	234,500
Multiple Dry Years Fourth Year[b]	179,900	205,400	212,900	229,100	234,500

(a) From the City of Fresno 2015 UWMP, Table 7-6, which conservatively assumes that the demands are the same as a fourth dry year.
(b) From the City of Fresno 2015 UWMP, Table 7-9.

6.0 CITY OF FRESNO WATER SUPPLIES

10910(c)(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f) and (g).

10910(d)(1) The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts

10910(d)(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall be demonstrated by providing information related to all of the following:

(A) Written contracts or other proof of entitlement to an identified water supply.

(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.

(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.

(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.

10910(e) If no water has been received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts, the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall also include in its water supply assessment pursuant to subdivision (c), an identification of the other public water systems or water service contract-holders that receive a water supply or have existing water supply entitlements, water rights, or water service contracts, to the same source of water as the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has identified as a source of water supply within its water supply assessments.

It is anticipated that the Proposed Project, if approved by the City, would be served from City's existing and future portfolio of water supplies. The inclusion of existing and planned future water supplies is specifically allowed by the Water Code:

Water Code section 10631(b): Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).

The water supply for the Proposed Project will have the same water supply reliability and water quality as the water supply available to the City's other existing and future water customers. Proponents of individual developments within the Proposed Project area will provide their proportionate share of required funding to the City for the acquisition and delivery of treated potable and recycled water supplies to the Proposed Project area.

The water supplies needed to serve the Proposed Project (together with existing water demands and planned future uses) are described in the City's 2015 UWMP. Therefore, the descriptions provided below for the City's water supplies have been taken, for the most part, from the City's 2015 UWMP, which was

adopted in June 2016. Supplemental information from other available reports has also been included to provide the most recent data available and to meet the specific requirements of SB 610.

6.1 Existing Water Supplies

The City currently receives potable water supplies from four sources:

- Surface water contract water that is delivered to the City by two separate sources:
  - Fresno Irrigation District (FID) Agreement for Kings River water.
  - United State Bureau of Reclamation (USBR) Central Valley Project (CVP) Friant Division Contract for San Joaquin River water.
- Groundwater that is pumped from groundwater wells located within the City.

Each of these existing supplies is described below. It should be noted the City also has a recycled water supply that will not be utilized by the Proposed Project.

6.1.1 Surface Water Contracts

The cumulative supply these contracts bring to the City provide the opportunity to construct surface water treatment facilities and optimize the use of these supplies. This conjunctive use approach continues the process of allowing the groundwater system to recover. Each of the surface water supplies is summarized in the following sections. (City of Fresno 2015 UWMP)

6.1.1.1 Surface Water Supplies through FID Agreement

In May of 1976 the City and FID executed an agreement that stipulated that as land is annexed to the City, the City will receive a pro rata share of FID's Kings River entitlement; this agreement was revised, amended and restated in December, 2016[4]. The pro rata share is based on the area annexed to the City, and within FID's boundaries, as compared to the total area of FID's water service area. The agreement stipulates the allocation amount will be reviewed each year by the two agencies to address new annexations to the City. So, as the City annexes new areas the allocation will increase up to the limits stipulated in the 2016 agreement. Utilizing GIS, it is estimated that there will be approximately 71,925 acres of land within the SOI and within FID's water service boundaries at SOI buildout, excluding Bakman Water Company, Pinedale County Water District, CSU Fresno, and County islands. In 2015 the City was projected to receive 110,500 af but was actually allocated 42,935 af; supply capacity was significantly hindered by drought conditions and the ongoing construction of the 80 mgd Southeast Fresno Surface Water Treatment Facility, which has since been completed. The City is predicted to receive 137,900 af in 2040 based on the City's projected future percentages. (City of Fresno 2015 UWMP)

6.1.1.2 Surface Water Supplies through USBR Contract

The City, through an agreement originally executed in January of 1961, secured a surface water supply from USBR CVP - Friant Division. This agreement, for an annual water supply of 60,000 af of Class 1 water, was last renewed in 2010 as a Section 9(d) Contract that provides water from the San Joaquin River in perpetuity. The USBR CVP – Friant Division facilities generally include the following: Friant Dam

[4] Revised, Amended, and Restated Cooperative Agreement between Fresno Irrigation District and City of Fresno for Water Utilization and Conveyance, dated December 20, 2016.

(Millerton Reservoir); the Friant Kern Canal; and the Madera Canal. The Friant-Kern Canal is maintained and operated by the Friant Water Authority. The USBR water supply is a wholesale supply.

Class 1 water was intended to be a supply that would be dependable in practically every year, regardless of the type of hydrologic water year. Class 2 water is essentially excess water available as determined by USBR and less reliable than Class 1 water. Class 1 water has historically been very reliable until the San Joaquin River Restoration Settlement and more recently by the restrictions on diversions from the Delta due to concerns over the declining health of Delta ecosystem. (City of Fresno 2015 UWMP)

6.1.2 Groundwater

10910(f) If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water supply assessment.

10910(f)(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.

10910(f)(2) A description of any groundwater basin or basins from which the proposed project will be supplied. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long-term overdraft condition.

10910(f)(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historical use records.

A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historical use records.

10910(f)(4) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project.

A water assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water demand associated with the project was addressed in the description and analysis required by paragraph (4) of subdivision (b) of Section 10631.

6.1.2.1 Groundwater Overview

The City pumps groundwater from a portion of the Kings Subbasin underlying the City. The City's 2015 UWMP states that the City produces groundwater from about 260 active wells. Groundwater quality is a concern because the groundwater basin has several major contaminant plumes involving organic compounds, inorganic compounds, solvents, pesticides, and other contaminants. A number of the City's wells are currently being treated or blended to address various contaminants. The total well capacity, when the City's Water Master Plan was prepared, was approximately 460 million gallons per day (mgd).

6.1.2.2 Basin Description

The City's wells are located within the northern part of the Kings Subbasin of the San Joaquin Valley Groundwater Basin. The following section describes the Kings Subbasin, including its water-bearing formations, water levels, and water quality. Much of the following information has been incorporated from the City's 2015 UWMP. Except where noted, the description of the sub-basin is based largely on information provided in the 2016 DWR Bulletin 118 Interim Update, in which the groundwater basin description was last updated in December 2016.

The Kings Subbasin is not adjudicated and there are no legal restrictions to groundwater pumping. The Kings Subbasin is generally bounded: on the north by the San Joaquin River; on the west by the Fresno Slough; on the south by the Kings River and Cottonwood Creek; and on the east by the Sierra foothills. The upper several hundred feet within the Kings Subbasin generally consists of highly permeable, coarse-grained deposits, which are termed older alluvium. Coarse-grained stream channel deposits, associated with deposits by the ancestral San Joaquin and Kings Rivers, underlie much of the northwest portions of the City. Below the older alluvium to depths ranging from about 600 to 1,200 feet below ground surface, the finer-grained sediments of the Tertiary-Quaternary continental deposits are typically encountered. Substantial groundwater has been produced and utilized from these depths by the City; however, deeper deposits located in the southeastern and northern portions of the City have produced less groundwater. There are also reduced deposits in the northern and eastern portions of the City, at depths generally below 700 or 800 feet, which are associated with high concentrations of iron, manganese, arsenic, hydrogen sulfide, and methane gas. Groundwater at these depths does not generally provide a significant source for municipal supply wells. The City's average groundwater depth in 2015 was approximately 130 feet below the ground surface.

6.1.2.3 Conditions of Overdraft

The Sustainable Groundwater Management Act (SGMA) directs DWR to identify groundwater basins and subbasins that are in conditions of critical overdraft. This designation is determined based upon the presence of "undesirable impacts" such as seawater intrusion, land subsidence, groundwater depletion, and chronic lowering of groundwater levels. Per DWR's current list of critically overdrafted basins, finalized in February 2019, the Kings Subbasin is designated as a critically overdrafted basin.

As part of the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, DWR is required to prioritize California groundwater basins to help identify, evaluate, and determine the need for additional groundwater level monitoring. Per the current CASGEM draft prioritization, completed in April 2019, the Kings Subbasin is a high priority subbasin. (DWR, 2019)

6.1.2.4 Groundwater Management

As part of a partnership of local municipal water purveyors, irrigation districts, a flood control district, and the overlying county, the Fresno Area Regional Groundwater Management Plan (FARGMP) was prepared in conformance with AB 3030 and SB 1938. The objectives of the FARGMP have been developed to monitor, protect, and sustain groundwater within the region. The City and the other participating agencies subsequently adopted the groundwater management plan in 2006 (City of Fresno 2015 UWMP). The City falls within the North Kings Groundwater Sustainability Agency (NKGSA). As a high priority basin, the Kings Subbasin must be managed under a Groundwater Sustainability Plan (GSP) by January 31, 2020 (DWR, 2016a). The NKGSA filed a GSP with the State in January 2020.

6.1.2.5 Historical Groundwater Use

As discussed previously, the City has approximately 260 active groundwater wells, 224 of which registered flows in 2014, according to the 2015 UWMP. The City's groundwater production from 2014-2019 is provided in Table 6-1.

Table 6-1. City of Fresno Historical Groundwater Production, af/yr

	2014[a]	2015[a]	2016[b]	2017[b]	2018[b]	2019[b]
Total Groundwater Production	110,313	83,360	99,107	105,211	76,797	54,608

(a) From the City of Fresno 2015 UWMP, Table 6-4.
(b) Provided by City Staff, June 23, 2020.

6.1.2.6 Projected Future Groundwater Use

The amount of groundwater pumped during dry years is not projected to differ from the amount pumped during normal years. The City's projected future groundwater production through 2040 is provided in Table 6-2.

Table 6-2. City of Fresno Projected Future Groundwater Production in Normal and Dry Years[a], af/yr

	2020	2025	2030	2035	2040
Total Groundwater Production During a Normal Year[a]	130,400	135,100	139,700	144,300	148,900
Total Groundwater Production During Dry Years[b]	130,400	135,100	139,700	144,300	148,900

(a) From the City of Fresno 2015 UWMP, Table 6-3.
(b) From the City of Fresno 2015 UWMP, Table 7-7.

6.1.2.7 Groundwater Sufficiency

The City's 2015 UWMP addressed the sufficiency of the City's groundwater supplies, in conjunction with the City's other existing and additional water supplies, to meet the City's existing and planned future uses. Based on the information provided above and that included in the City's 2015 UWMP, the City's groundwater supply, together with the City's other existing and additional planned future water supplies, is sufficient to meet the water demands of the Proposed Project, in addition to the City's existing and planned future uses. See Section 7 for a determination of the sufficiency of the City's water supply portfolio, including groundwater, to meet the demands of the Proposed Project.

6.2 Future Water Projects

The inclusion of planned future water supplies in this WSA is specifically allowed by the Water Code:

> *Water Code section 10631(b): Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).*

The City has a number of future capital improvement projects planned to maintain and upgrade existing water supply and distribution facilities. The City is also undergoing a large capital improvement program

outlined in their 2014 Metropolitan Water Resources Management Plan. The City has constructed an 80 mgd surface water treatment plant, called the Southeast Surface Water Treatment Facility (SESWTF). The City also plans to upgrade their Northeast Surface Water Treatment Facility (NESWTF) from 30 mgd to 60 mgd. The timing for this expansion is anticipated to occur by approximately 2035; however, the City will monitor system demands and adjust the schedule for this project as required to meet projected water system demands and maintain the sustainable use of available water resources. The City is also planning on developing groundwater recharge facilities, with the target recharge expansion to ultimately attain an annual rate of 75,100 af/yr, which would optimize use of available surface water supplies in normal years.

6.3 Summary of Existing and Additional Planned Future Water Supplies

Table 6-3 provides a summary of the City's 2015 actual water supply deliveries and projected future available water supply available. A discussion of the future anticipated availability of these existing and additional planned future water supplies during dry years is provided in the next section.

Table 6-3. City of Fresno Historical and Projected Water Supplies, af/yr

	2015[a]	2020[b]	2025[b]	2030[b]	2035[b]	2040[b]
Groundwater Production	83,360	130,400	135,100	139,700	144,300	148,900
Surface Water[c]	44,525	158,800	163,800	168,800	173,800	178,800
Total Potable Water Supply	**127,885**	**289,200**	**298,900**	**308,500**	**318,100**	**327,700**
Recycled Water[d]	203	19,500	31,000	33,500	36,000	38,500
Total Water Supply	**128,088**	**308,700**	**329,900**	**342,000**	**354,100**	**366,200**

(a) From the City of Fresno 2015 UWMP, Table 6-13.
(b) From the City of Fresno 2015 UWMP, Table 6-14.
(c) Surface water includes USBR CVP, FID Contract, and a onetime purchase of surface water with no associated right in 2015.
(d) Recycled water includes RWRF and NFWRF.

6.4 Water Supply Availability and Reliability

Water Code section 10910 (c)(4) requires that a WSA include a discussion with regard to "whether total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses." Accordingly, this WSA addresses these three hydrologic conditions through the year 2040.

Also, in response to historical drought conditions and the (now expired) State of Emergency proclaimed by Governor Brown, first in January 2014 and most recently in April 2015, this WSA provides a discussion of the availability and reliability of the City's available water supplies to meet the City's water demands in the event that the City's surface water supplies are limited under emergency water supply conditions.

6.4.1 Normal, Single Dry, and Multiple Dry Years

The reliability of each of the City's existing and additional planned water supplies and their projected availability during normal, single dry, and multiple dry years, as described in Section 7 of the City's 2015 UWMP, is described below and summarized in Table 6-4. The City expects to meet system water demand, regardless of regional hydrology. (City of Fresno 2015 UWMP)

The City's surface water supply could face constraints during dry years.

Water supplied from the FID contract is most susceptible to annual hydrologic conditions. The annual variability of precipitation, snowpack, and river flow conditions will then influence, and may constrain, the City's allocation from this source. Another factor that may constrain the availability of Kings River water supply is scheduled maintenance of FID's vast canal network. FID typically terminates water deliveries to the City's water treatment facilities in the months of November and/or December so they may perform necessary infrastructure repairs and maintenance. To ensure year-round delivery of water to the SESWTF a raw water pipeline is being constructed.

The City also has a contract for 60,000 af/yr of Class 1 water from the USBR's CVP, which is affected by required downstream flows for the San Joaquin River and the imposed restrictions on water diversions from the Delta. These restrictions have resulted in years where the CVP - Friant Division contractors, such as the City, receives zero allocations. The water supply is also restricted by maintenance of infrastructure, which results in termination of water supply during the months of November and/or December. To improve delivery reliability and to protect the source water from deleterious impacts from environmental and other malicious acts, the City completed a 4.6-mile long raw water pipeline that will permit the delivery of USBR water from the Friant-Kern Canal directly to the NESWTF (Recharge Fresno 2019).

Groundwater has long been the primary water supply source for the City. The continued use of groundwater is key to the sustainable use of all supplies, which is inclusive of surface water and recycled water. The groundwater supply has declined over the last eighty years, requiring new deeper wells and the lowering of pumps in existing wells. A constraint to lowering the pumps in existing wells is the limited depth of numerous existing municipal water wells. If the declining groundwater trend is not reversed, it may cause a reduction in pumping capacity of the City's water system. Another constraint to the use of groundwater is the negative impacts from contamination. To ensure the continued beneficial use of the groundwater supply, the City will have to remain proactive in pursuing responsible party(s) so the proper remediation is conducted to preserve the groundwater system as a viable and sustainable resource in perpetuity. Despite these concerns, groundwater supply during normal and dry years was assumed to be constant, as shown in Table 6-2.

While the supply of wastewater used to produce the recycled water may decrease somewhat if voluntary or mandatory conservation measures are enacted, the supply of recycled water produced by the City's recycled water facilities is expected to be unaffected by single or multiple dry years.

Table 6-4. City of Fresno Water Supply Reliability in Single Dry and Multiple Dry Years, percent of Normal Year Supply

Hydrologic Condition	2020	2025	2030	2035	2040
Single Dry Year[a]	64.1	65.6	66.0	66.4	66.8
Multiple Dry Year - First Year[b]	84.5	85.1	85.3	85.5	85.6
Multiple Dry Year - Second Year[b]	87.9	88.4	88.5	88.6	88.7
Multiple Dry Year - Third Year[b]	71.0	72.3	72.8	73.3	73.6
Multiple Dry Year - Fourth Year[b]	64.1	65.6	66.0	66.4	66.8

(a) From the City of Fresno 2015 UWMP, Table 7-6, which conservatively assumes that the supply is the same as in the fourth dry year of a multiple year drought.
(b) From the City of Fresno 2015 UWMP, Table 7-9.

6.4.2 Emergency Water Supply Conditions

In addition to the water conservation measures outlined in Section 6-520 of the Fresno Municipal Code, the City's 2015 UWMP includes a Water Shortage Contingency Plan (WSCP) to address situations when catastrophic water supply interruptions occur due to regional power outage, earthquake, or other disasters; and when drought occurs. The City's WSCP includes an analysis of existing and projected water demands and supplies, a water conservation and rationing plan with mandatory prohibitions and penalties, and an analysis of projected revenues and expenditures. The WSCP outlines four stages of action to be undertaken in response to water supply shortages, including up to a 50 percent reduction in water supply and an outline of specific water supply conditions that are applicable to each stage. The City also has a Water Quality Emergency Notification Plan in place to coordinate the City's response in the event of a catastrophic water supply interruption.

Triggering from one stage to the next is done based on water supply conditions. Factors to take into consideration include decreases in surface water from USBR and FID, from reductions in infrastructure capacity related to the water treatment plants or pipelines, decrease in groundwater levels in 30 key wells, or climate or state political conditions that would impact the allotment of water supply. Consumption reduction methods outlined in the WSCP include limiting or prohibiting the watering of lawns and other landscape areas, restricting water use at outdoor facilities, restrictions on water use for decorative water features, and prohibiting car washes or laundries which do not use recycled or recirculated water. Rate changes and fees may be implemented to penalize excessive water use or violation of water use ordinances. (City of Fresno 2015 UWMP)

If an emergency were to occur which required the City to implement its WSCP, all of the City's customers, including those within the Proposed Project area, would be subject to the same water conservation measures and water use restrictions as included in City's WSCP.

7.0 DETERMINATION OF WATER SUPPLY SUFFICIENCY BASED ON THE REQUIREMENTS OF SB610

Water Code section 10910 states:

> *10910(c)(4) If the city or county is required to comply with this part pursuant to subdivision (b), the water supply assessment for the project shall include a discussion with regard to whether the total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses.*

Pursuant to Water Code section 10910(c)(4), and based on the technical analyses described in this Water Supply Assessment, the City finds that the total projected water supplies determined to be available for the Proposed Project during Normal, Single Dry, and Multiple Dry water years during a 20-year projection will meet the projected water demand associated with the Proposed Project, in addition to existing and planned future uses.

Table 7-1 summarizes the projected availability of the City's existing and planned future potable water supplies and the City's projected water demands in normal, single dry and multiple dry years through 2040. As shown in Table 7-1, demand within the City's service area is not expected to exceed the City's supplies in any normal, single dry, or multiple dry year between 2020 and 2040.

Table 7-1. City of Fresno Water Demand Versus Water Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years, af/yr

Hydrologic Condition		2020	2025	2030	2035	2040
Normal Year						
Available Water Supply[(a)]		308,700	329,900	342,000	354,100	366,200
Total Water Demand[(b)]		235,700	264,000	274,100	292,900	301,100
	Potential Surplus (Deficit)	73,000	65,900	67,900	61,200	65,100
	Percent Shortfall of Demand	-	-	-	-	-
Single Dry Year						
Available Water Supply[(c)]		198,000	216,400	225,800	235,200	244,500
Total Water Demand[(d)]		179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	18,100	11,000	12,900	6,100	10,000
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Years						
Multiple Dry Year 1	Available Water Supply[(e)]	260,900	280,900	291,800	302,700	313,600
	Total Water Demand[(d)]	213,800	217,800	229,300	229,100	234,500
	Potential Surplus (Deficit)	47,100	63,100	62,500	73,600	79,100
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 2	Available Water Supply[(e)]	271,500	291,700	302,800	313,900	325,000
	Total Water Demand[(d)]	225,100	229,200	240,900	231,800	241,400
	Potential Surplus (Deficit)	46,400	62,500	61,900	82,100	83,600
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 3	Available Water Supply[(e)]	219,200	238,600	249,000	259,400	269,700
	Total Water Demand[(d)]	179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	39,300	33,200	36,100	30,300	35,200
	Percent Shortfall of Demand	-	-	-	-	-
Multiple Dry Year 4	Available Water Supply[(e)]	198,000	216,400	225,800	235,200	244,500
	Total Water Demand[(d)]	179,900	205,400	212,900	229,100	234,500
	Potential Surplus (Deficit)	18,100	11,000	12,900	6,100	10,000
	Percent Shortfall of Demand	-	-	-	-	-

(a) From Table 6-3 of this WSA.
(b) From the City of Fresno 2015 UWMP, Table 4-5.
(c) From the City of Fresno 2015 UWMP, Table 7-6.
(d) From Table 5-3 of this WSA.
(e) From the City of Fresno 2015 UWMP, Table 7-9.

8.0 WATER SUPPLY ASSESSMENT APPROVAL PROCESS

10910 (g)(1) Subject to paragraph (2), the governing body of each public water system shall submit the assessment to the city or county not later than 90 days from the date on which the request was received. The governing body of each public water system, or the city or county if either is required to comply with this act pursuant to subdivision (b), shall approve the assessment prepared pursuant to this section at a regular or special meeting.

10911 (b) The city or county shall include the water supply assessment provided pursuant to Section 10910, and any information provided pursuant to subdivision (a), in any environmental document prepared for the project pursuant to Division 13 (commencing with Section 21000) of the Public Resources Code.

Although a WSA is not required for the Proposed Project, it is recommended the City include this WSA in the Draft EIR that is being prepared for the Proposed Project.

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Appendix E

Noise Impact Study

Fresno Southeast Regional Soccer Park

Noise Impact Study

City of Fresno, CA

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1.0 Introduction

1.1 Purpose of Analysis and Study Objectives

This noise assessment was prepared to evaluate the potential noise impacts for the project study area and to recommend noise mitigation measures, if necessary, to minimize the potential noise impacts. The assessment was conducted and compared to the noise standards set-forth by the Federal, State and Local agencies. Consistent with the City's Noise Guidelines, the project must demonstrate compliance to the applicable noise criterion as outlined within the City's Noise Element and Municipal Code.

The following is provided in this report:

- A description of the study area and the proposed project
- Information regarding the fundamentals of noise
- A description of the local noise guidelines and standards
- An analysis of traffic noise impacts to the project site
- An analysis of railroad noise impacts to the project site
- An analysis of construction noise impacts

1.2 Site Location and Study Area

The project site is located at 2155 S. Peach Avenue, in the City of Fresno, California, as shown in Exhibit A. Residential and planned residential use surrounds the Project.

The main existing source of noise is traffic on S. Peach Ave.

1.3 Proposed Project Description

The Project proposes to develop a 49.04-acre park site into a regional park on the northern 18.5-acre parcel and a soccer complex on the 30.5-acre parcel. Site use includes picnic areas, playground equipment, a dog park, soccer fields, futsal fields, pickleball courts, a fitness station, and an aquatic center. The site plan used for this is illustrated in Exhibit B.

1.4 Noise Study Summary

The operational-only levels at the property lines will range between 47.7 dBA Leq to 50.1 dBA Leq. The project plus ambient levels will range 55.7 dBA Leq to 65.7 dBA Leq. All levels fall within the City of Fresno limits of ambient plus 5 dB where the ambient is given in Section 10-102(b) of the municipal code. The project site is below 65 dBA CNEL at the outdoor uses. The CNEL will increase 0.7 dBA as a result of the increase of traffic from the project.

Exhibit A
Location Map

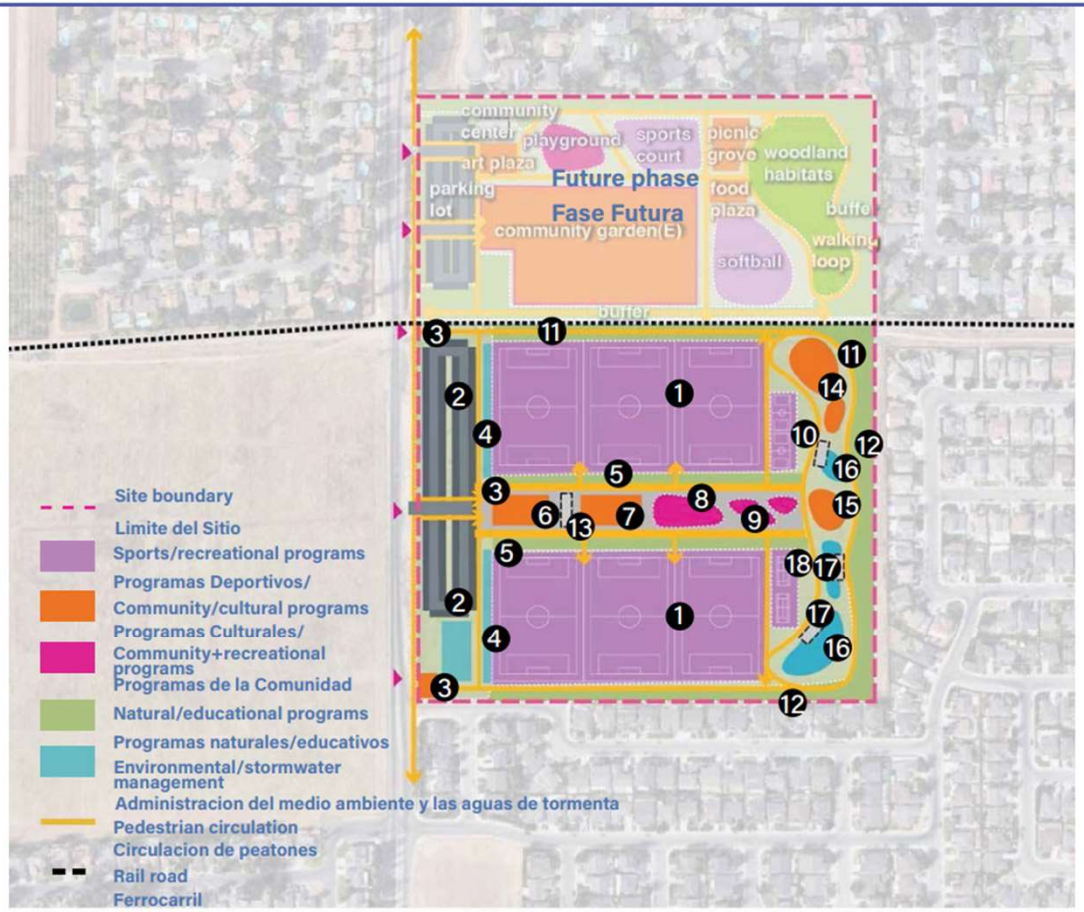


Exhibit B

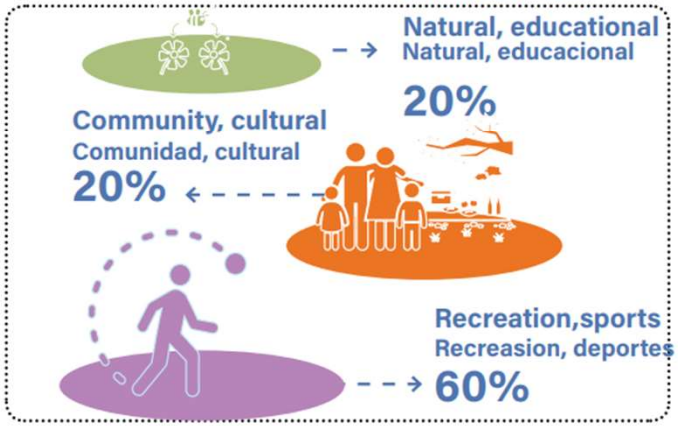
Site Plan

Site Design Scheme 2: Hybrid Soccer Park

Esquema del Diseno de Sitio 2: Parque de Futbol Hibrido



1. Soccer field — Cancha de futbol
2. Parking lot — Estacionamiento
3. Entry node — Nodo de entrada
4. Rain garden — Jardin de lluvia
5. Tree lined boulevard — Bulevar arboleado
6. Picnic/Cultural plaza — Plaza de picnic/cultural
7. Demonstration/Art garden — Jardin de demonstracion/ Arte
8. Playground — Area de recreasion
9. Fitness station — Estacion de ejercicios
10. Futsal courts — Canchas de Futsal
11. Walking loop — Vereda para caminar
12. Buffer — Area de transision
13. Concession and community canopy — Concesion y voladizo comunitario
14. Dog park — Parque para perros
15. Aquatic center — Centro acuatico
16. Stormwater/Natural habitat — Habitat natural/agua de tormenta
17. Habitat education platform — Pataforma de educasion de Habitat
18. Pickleball court — Cancha de Pickebol



Fresno SE Regional Soccer Park
Regional y Complejo de Soccer del Sureste de Fresno

October 2020

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2.0 Fundamentals of Noise

This section of the report provides basic information about noise and presents some of the terms used within the report.

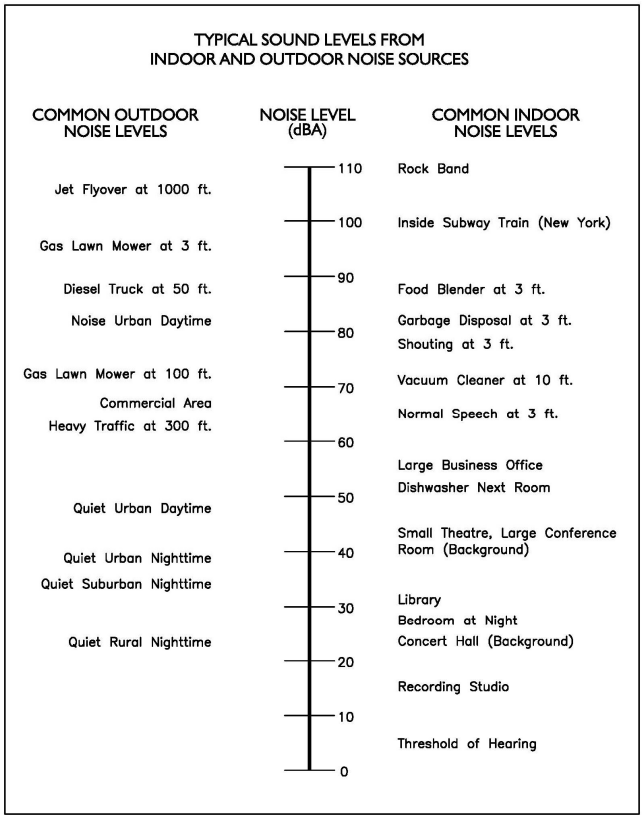
2.1 Sound, Noise and Acoustics

Sound is a disturbance created by a moving or vibrating source and is capable of being detected by the hearing organs. Sound may be thought of as mechanical energy of a moving object transmitted by pressure waves through a medium to a human ear. For traffic, or stationary noise, the medium of concern is air. *Noise* is defined as sound that is loud, unpleasant, unexpected, or unwanted.

2.2 Frequency and Hertz

A continuous sound is described by its *frequency* (pitch) and its *amplitude* (loudness). Frequency relates to the number of pressure oscillations per second. Low-frequency sounds are low in pitch (bass sounding) and high-frequency sounds are high in pitch (squeak). These oscillations per second (cycles) are commonly referred to as Hertz (Hz). The human ear can hear from the bass pitch starting out at 20 Hz all the way to the high pitch of 20,000 Hz.

Exhibit C: Typical A-Weighted Noise Levels



2.3 Sound Pressure Levels and Decibels

The *amplitude* of a sound determines it loudness. The loudness of sound increases or decreases as the amplitude increases or decreases. Sound pressure amplitude is measure in units of micro-Newton per square inch meter (N/m2), also called micro-Pascal (µPa). One µPa is approximately one hundred billionths (0.00000000001) of normal atmospheric pressure. Sound pressure level (SPL or L_p) is used to describe in logarithmic units the ratio of actual sound pressures to a reference pressure squared. These units are called decibels abbreviated dB. Exhibit C illustrates references sound levels for different noise sources.

2.4 Addition of Decibels

Because decibels are on a logarithmic scale, sound pressure levels cannot be added or subtracted by simple plus or minus addition. When two sounds or equal SPL are combined, they will produce an SPL 3 dB greater than the original single SPL. In other words, sound energy must be doubled to produce a 3 dB increase. If two sounds differ by approximately 10 dB, the higher sound level is the predominant sound.

2.5 Human Response to Changes in Noise Levels

In general, the healthy human ear is most sensitive to sounds between 1,000 Hz and 5,000 Hz, (A-weighted scale) and it perceives a sound within that range as being more intense than a sound with a higher or lower frequency with the same magnitude. For purposes of this report as well as with most environmental documents, the A-scale weighting is typically reported in terms of A-weighted decibel (dBA). Typically, the human ear can barely perceive the change in noise level of 3 dB. A change in 5 dB is readily perceptible, and a change in 10 dB is perceived as being twice or half as loud. As previously discussed, a doubling of sound energy results in a 3 dB increase in sound, which means that a doubling of sound energy (e.g. doubling the volume of traffic on a highway) would result in a barely perceptible change in sound level.

2.6 Noise Descriptors

Noise in our daily environment fluctuates over time. Some noise levels occur in regular patterns, others are random. Some noise levels are constant while others are sporadic. Noise descriptors were created to describe the different time-varying noise levels.

A-Weighted Sound Level: The sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear. A numerical method of rating human judgment of loudness.

Ambient Noise Level: The composite of noise from all sources, near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

Community Noise Equivalent Level (CNEL): The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of five (5) decibels to sound levels in the evening from 7:00 to 10:00 PM and after addition of ten (10) decibels to sound levels in the night before 7:00 AM and after 10:00 PM.

Decibel (dB): A unit for measuring the amplitude of a sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micro-pascals.

dB(A): A-weighted sound level (see definition above).

Equivalent Sound Level (LEQ): The sound level corresponding to a steady noise level over a given sample period with the same amount of acoustic energy as the actual time varying noise level. The energy average noise level during the sample period.

Habitable Room: Any room meeting the requirements of the Uniform Building Code or other applicable regulations which is intended to be used for sleeping, living, cooking or dining purposes, excluding such enclosed spaces as closets, pantries, bath or toilet rooms, service rooms, connecting corridors, laundries, unfinished attics, foyers, storage spaces, cellars, utility rooms and similar spaces.

L(n): The A-weighted sound level exceeded during a certain percentage of the sample time. For example, L10 in the sound level exceeded 10 percent of the sample time. Similarly L50, L90 and L99, etc.
Noise: *A*ny unwanted sound or sound which is undesirable because it interferes with speech and hearing, or is intense enough to damage hearing, or is otherwise annoying. The State Noise Control Act defines noise as "...excessive undesirable sound...".

Outdoor Living Area: Outdoor spaces that are associated with residential land uses typically used for passive recreational activities or other noise-sensitive uses. Such spaces include patio areas, barbecue areas, jacuzzi areas, etc. associated with residential uses; outdoor patient recovery or resting areas associated with hospitals, convalescent hospitals, or rest homes; outdoor areas associated with places of worship which have a significant role in services or other noise-sensitive activities; and outdoor school facilities routinely used for educational purposes which may be adversely impacted by noise. Outdoor areas usually not included in this definition are: front yard areas, driveways, greenbelts, maintenance areas and storage areas associated with residential land uses; exterior areas at hospitals that are not used for patient activities; outdoor areas associated with places of worship and principally used for short-term social gatherings; and, outdoor areas associated with school facilities that are not typically associated with educational uses prone to adverse noise impacts (for example, school play yard areas).
Percent Noise Levels: See L(n).

Sound Level (Noise Level): The weighted sound pressure level obtained by use of a sound level meter having a standard frequency-filter for attenuating part of the sound spectrum.

Sound Level Meter: An instrument, including a microphone, an amplifier, an output meter, and frequency weighting networks for the measurement and determination of noise and sound levels.

Single Event Noise Exposure Level (SENEL): The dB(A) level which, if it lasted for one second, would produce the same A-weighted sound energy as the actual event.

2.7 Traffic Noise Prediction

Noise levels associated with traffic depends on a variety of factors: (1) volume of traffic, (2) speed of traffic, (3) auto, medium truck (2–3 axle) and heavy truck percentage (4 axle and greater), and sound propagation. The greater the volume of traffic, higher speeds and truck percentages equate to a louder volume in noise. A doubling of the Average Daily Traffic (ADT) along a roadway will increase noise levels by approximately 3 dB; reasons for this are discussed in the sections above.

2.8 Sound Propagation

As sound propagates from a source it spreads geometrically. Sound from a small, localized source (i.e., a point source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates at a rate of 6 dB per doubling of distance. The movement of vehicles down a roadway makes the source of the sound appear to propagate from a line (i.e., line source) rather than a

point source. This line source results in the noise propagating from a roadway in a cylindrical spreading versus a spherical spreading that results from a point source. The sound level attenuates for a line source at a rate of 3 dB per doubling of distance.

As noise propagates from the source, it is affected by the ground and atmosphere. Noise models use hard site (reflective surfaces) and soft site (absorptive surfaces) to help calculate predicted noise levels. Hard site conditions assume no excessive ground absorption between the noise source and the receiver. Soft site conditions such as grass, soft dirt or landscaping attenuate noise at a rate of 1.5 dB per doubling of distance. When added to the geometric spreading, the excess ground attenuation results in an overall noise attenuation of 4.5 dB per doubling of distance for a line source and 7.5 dB per doubling of distance for a point source.

Research has demonstrated that atmospheric conditions can have a significant effect on noise levels when noise receivers are located 200 feet from a noise source. Wind, temperature, air humidity and turbulence can further impact have far sound can travel.

3.0 Regulatory Setting

The proposed project is located in the City of Fresno and noise regulations are addressed through the efforts of various federal, state and local government agencies. The agencies responsible for regulating noise are discussed below.

3.1 Federal Regulations

The adverse impact of noise was officially recognized by the federal government in the Noise Control Act of 1972, which serves three purposes:

- Publicize noise emission standards for interstate commerce
- Assist state and local abatement efforts
- Promote noise education and research

The Federal Office of Noise Abatement and Control (ONAC) originally was tasked with implementing the Noise Control Act. However, it was eventually eliminated leaving other federal agencies and committees to develop noise policies and programs. Some examples of these agencies are as follows: The Department of Transportation (DOT) assumed a significant role in noise control through its various agencies. The Federal Aviation Agency (FAA) is responsible to regulate noise from aircraft and airports. The Federal Highway Administration (FHWA) is responsible to regulate noise from the interstate highway system. The Occupational Safety and Health Administration (OSHA) is responsible for the prohibition of excessive noise exposure to workers.

The federal government advocates that local jurisdiction use their land use regulatory authority to arrange new development in such a way that “noise sensitive” uses are either prohibited from being constructed adjacent to a highway or, or alternatively that the developments are planned and constructed in such a manner that potential noise impacts are minimized.

Since the federal government has preempted the setting of standards for noise levels that can be emitted by the transportation source, the City is restricted to regulating the noise generated by the transportation system through nuisance abatement ordinances and land use planning.

3.2 State Regulations

Established in 1973, the California Department of Health Services Office of Noise Control (ONC) was instrumental in developing regularity tools to control and abate noise for use by local agencies. One significant model is the “Land Use Compatibility for Community Noise Environments Matrix.” The matrix allows the local jurisdiction to clearly delineate compatibility of sensitive uses with various incremental levels of noise.

The State of California has established noise insulation standards as outlined in Title 24 and the Uniform Building Code (UBC) which in some cases requires acoustical analyses to outline exterior noise levels and to ensure interior noise levels do not exceed the interior threshold. The State mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan.

The local noise element must recognize the land use compatibility guidelines published by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of normally acceptable, conditionally acceptable, normally unacceptable, and clearly unacceptable as illustrated in Exhibit D.

Exhibit D: Land Use Compatibility Guidelines

TABLE 15-2506-C: LAND USE COMPATIBILITY FOR NEW DEVELOPMENT PROPOSED NEAR TRANSPORTATION NOISE SOURCES		
Noise-Sensitive Land Use	Day/Night Average Sound Level (Ldn or CNL, dB)	Requirements and Limitations
Residential; Transient Lodging; Medical Care Facility; Religious Assembly Facility, Meeting Hall; School, Library, Museum	Less than 65	A: Satisfactory
	65 to 70	B: Analysis and integration of noise reduction measures in project design
	70 to 75	C: Acoustic study and noise attenuation measures required
	Over 75	D: Not allowed
Theater, Auditorium, Concert Hall, Amphitheater	Less than 70	B: Analysis and integration of noise reduction measures in project design
	Over 70	D: Not allowed
Office Building	Less than 70	A: Satisfactory
	70 to 75	B: Analysis and integration of noise reduction measures in project design
	Over 75	C: Acoustic study and noise attenuation measures required
Industrial	Less than 75	A: Satisfactory
	Over 75	C: Acoustic study and noise attenuation measures required
Outdoor sports and recreation, parks	Less than 65	A: Satisfactory
	65 to 80	C: Acoustic study and noise attenuation measures required; avoid uses involving concentrations of people or animals
	Over 80	E: Limited to open space; avoid uses involving concentrations of people or animals

3.3 City of Fresno Noise Regulations

The City of Fresno outlines their noise regulations and standards within the Noise Element from the General Plan and the Noise Ordinance from the Municipal Code.

City of Fresno General Plan

Applicable policies and standards governing environmental noise in the City are set forth in the General Plan Noise Element. Table 1 refers to the maximum exterior level due to transportation noise sources.

Table 1: Transportation (Non-Aircraft) Noise Sources

Land Use[1]	Maximum Exterior Noise Level [1,2] (Ldn/CNEL dB)	Interior Spaces	
		Ldn/CNEL dB	Leq dB
Residential	65[3]	45	—
Transient Lodging	65[3]	45	—
Medical Care Facility	65[3]	45	—
Theater, Auditorium	—	—	35
Religious Assembly Facility, Meeting Hall	65[3]	—	45
Office Buildings	—	—	45
Schools, Libraries, Museums	—	—	45

Notes:
1. Exterior noise areas
hg;Exclude: a) front and side yards and b) outdoor areas for projects along Bus Rapid Transit (BRT) corridors and/or within Activity Centers (where application of the standards will be detrimental to the realization of mixed-use, multi-modal oriented-objectives).
Include: a) rear yards and courtyards and b) balconies or roof decks (not adjacent to BRT), if they are included in on-site open space calculations.
2. Where the location of exterior areas is unknown or not applicable, the exterior noise level standard shall be applied at the property line.
3. While 65 db is the maximum level, projects should strive to reach 60 db.
Source: Fresno General Plan, Table 9-2.

Table 9-3 in the General Plan lists stationary noise source limits as 50 dBA during daytime. If the ambient noise exceeds or equals this table, the limit is the ambient plus 5.

This information is also in Section 15-2506 of the Municipal Code.

Objectives, Policies, and Implementation Measures

Policies and goals from the Safety and Noise Chapter that would mitigate potential impacts on noise include the following.

Objective NS-1 Protect the citizens of the City from the harmful and annoying effects of exposure to excessive noise.

NS-1-a **Desirable and Generally Acceptable Exterior Noise Environment.** Establish 65 dBA Ldn or CNEL as the standard for the desirable maximum average exterior noise levels for defined usable exterior areas of residential and noise-sensitive uses for noise, but designate 60 dBA Ldn or CNEL (measured at the property line)

for noise generated by stationary sources impinging upon residential and noise-sensitive uses. Maintain 65 dBA Ldn or CNEL as the maximum average exterior noise levels for non-sensitive commercial land uses, and maintain 70 dBA Ldn or CNEL as maximum average exterior noise level for industrial land uses, both to be measured at the property line of parcels where noise is generated which may impinge on neighboring properties.

Commentary: *The Noise Ordinance will define usable exterior areas for single family and multiple family residential and noise sensitive uses to include rear yards and other outdoor areas intended to accommodate leisure or active use, excluding front or side yard areas, and front or side porches. Balconies or roof decks facing front and side yards shall be included in designated areas to be protected from noise where these spaces are used to calculate compliance with required outdoor living area as required by adopted development standards.*

NS-1-i **Mitigation by New Development.** Require an acoustical analysis where new development of industrial, commercial or other noise generating land uses (including transportation facilities such as roadways, railroads, and airports) may result in noise levels that exceed the noise level exposure criteria established by Tables 9-2 and 9-3 to determine impacts, and require developers to mitigate these impacts in conformance with Tables 9-2 and 9-3 as a condition of permit approval through appropriate means.

- The screening of noise sources such as parking and loading facilities, outdoor activities, and mechanical equipment;
- Providing increased setbacks for noise sources from adjacent dwellings;
- Installation of walls and landscaping that serve as noise buffers;
- Installation of soundproofing materials and doubleglazed windows; and
- Regulating operations, such as hours of operation, including deliveries and trash pickup

Alternative acoustical designs that achieve the prescribed noise level reduction may be approved by the City, provided a qualified Acoustical Consultant submits information demonstrating that the alternative designs will achieve and maintain the specific targets for outdoor activity areas and interior spaces. As a last resort, developers may propose to construct noise walls along roadways when compatible with aesthetic concerns and neighborhood character. This would be a developer responsibility, with no City funding.

NS-1-j **Significance Threshold.** Establish, as a threshold of significance for the City's environmental review process, that a significant increase in ambient noise levels is assumed if the project would increase noise levels in the immediate vicinity by 3 dB Ldn or CNEL or more above the ambient noise limits established in this

General Plan Update.

Commentary: *When an increase in noise would result in a "significant" impact (increase of three dBA or more) to residents or businesses, then noise mitigation would be required to reduce noise exposure. If the increase in noise is less than three dBA, then the noise impact is considered insignificant and no noise mitigation is needed.*

By setting a specific threshold of significance in the General Plan, this policy facilitates making a determination of environmental impact, as required by the California Environmental Quality Act. It helps the City determine whether (1) the potential impact of a development project on the noise environment warrants mitigation, or (2) a statement of overriding considerations will be required.

City of Fresno Municipal Code

Chapter 10, Article 1 outlines the noise regulations for the City of Fresno.

Section 10-102(b) ***Ambient Noise.*** *"Ambient noise" is the all-encompassing noise associated with a given environment, being usually a composite of sounds from many sources near and far. For the purpose of this ordinance, ambient noise level is the level obtained when the noise level is averaged over a period of fifteen minutes, without inclusion of the offending noise, at the location and time of day at which a comparison with the offending noise is to be made****. Where the ambient noise level is less than that designated in this section, however, the noise level specified herein shall be deemed to be the ambient noise level for that location.***

Section 10-106: Any noise or sound exceeding the ambient noise level at the property line of any person offended thereby, or, if a condominium or apartment house, within any adjoining living unit, by more than five decibels shall be deemed to be prima facie evidence of a violation of Section 8-305.

Table 2: Presumed Ambient Levels

DISTRICT	TIME	SOUND LEVEL DECIBELS
Residential	10 pm to 7 am	50
Residential	7 pm to 10 pm	55
Residential	7 am to 7 pm	60
Commercial	10 pm to 7 am	60
Commercial	7 am to 10 pm	65
Industrial	anytime	70

Construction Noise Regulations

SEC. 10-105. Excessive Noise Prohibited. No person shall make, cause, or suffer or permit to be made or caused upon any premises or upon any public street, alley, or place within the city, any sound or noise which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing or working in the area, unless such noise or sound is specifically authorized by or in accordance with this article. The provisions of this section shall apply to, but shall be limited to, the control, use, and operation of the following noise sources:

(d) Construction equipment or work, including the operation, use or employment of pile drivers, hammers, saws, drills, derricks, hoists, or similar construction equipment or tools

SEC. 10-109. Exceptions. The provisions of this article shall not apply to:

(a) Construction, repair or remodeling work accomplished pursuant to a building, electrical, plumbing, mechanical, or other construction permit issued by the city or other governmental agency, or to site preparation and grading, provided such work takes place between the hours of 7:00 a.m. and 10:00 p.m. on any day except Sunday.

4.0 Study Method and Procedure

The following section describes the noise modeling procedures and assumptions used for this assessment.

4.1 SoundPLAN Noise Model (Operational Noise)

SoundPLAN acoustical modeling software was utilized to model project operational noise at nearby sensitive receptors. The SoundPLAN software utilizes algorithms (based on the inverse square law) to calculate noise level projections. It allows the user to input specific noise sources, spectral content, sound barriers, building placement, topography, and sensitive receptor locations. It also calculates noise level increases due to the reflection of noise from hard surfaces.

Measured and referenced sound level data was utilized to model the various stationary on-site noise sources associated with project operation.

Noise associated with proposed sport, recreational, and parking areas was modeled using SoundPLAN methodology which takes into consideration number of parking spaces and estimates the number of movements per hour per parking space. Modeling assumptions are summarized in Table 3. SoundPLAN noise modeling input and results are provided in Appendix B.

Table 3: SoundPLAN Modeling Assumptions

Noise Source	Source Type	Source Reference	Reference Level (dBA) Leq Sound Power Level
North Parking Lot	Area (SP Parking Tool)	1 movement per hour	95.7
South Parking Lot	Area (SP Parking Tool)	1 movement per hour	98.5
Soccer Fields	Area Source	SP: Soccer game	92.9
Futsal Courts	Area Source	SP: Soccer game	88.5
Aquatic Center	Area Source	SP: Open-air swimming pools, lawn	90.9
Playground Areas	Point Source	Playground 20 kids	78.0
Picnic Areas	2 Point Sources per Area	Speaking, raised voice (beer garden)	70.0
Pickleball Courts	Area Source	Tennis court	83.0
Softball Stands	Area Source	Spectator area (seats)	100.5<
Fitness Station	Point Source	Playground 20 kids	78.0
Sports Court	Area Source	Big play and sports areas w. spectator	70.0

Source: SoundPLAN 8.2.

4.2 Traffic Noise Prediction Modeling

The FHWA Traffic Noise Prediction Model (FHWA-RD-77-108) was utilized to model future traffic noise levels on the project site and existing and existing plus project traffic noise volumes along roadways

affected by project generated vehicle traffic. The FHWA model arrives at the predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL).

Project generated vehicle traffic will result in an incremental increase in ambient noise levels. Vehicles accessing the project site will primarily utilize S. Peach Avenue. Table 4 indicates the roadway parameters and vehicle distribution utilized for the modeling. Noise contours are used to provide a characterization of sound levels experienced at a set distance from the centerline of a subject roadway. They are intended to represent a worst-case scenario and do not take into account structures, sound walls, topography, and/or other sound attenuating features which may further reduce the actual noise level. Noise contours are developed for comparative purposes and are used to demonstrate potential increases/decreases along subject roadways as a result of a project. The referenced traffic data and traffic noise calculation worksheets outputs are located in Appendix A.

- Roadway classification – (e.g. freeway, major arterial, arterial, secondary, collector, etc.),
- Roadway Active Width – (distance between the center of the outer most travel lanes on each side of the roadway)
- Average Daily Traffic Volumes (ADT), Speeds, Percentages of autos, medium and heavy trucks
- Roadway grade and angle of view
- Site Conditions (e.g. soft vs. hard)
- Percentage of total ADT which flows each hour through-out a 24-hour period

Table 4: Roadway Parameters and Vehicle Distribution (Saturday)

Roadway/Type	Existing ADT[1]	Existing + Project ADT[2]	Future + Project ADT[3]	Speed (MPH)	Site Conditions
S. Peach Ave	8,250	10,700	16,050	40	Soft
Motor-Vehicle Type[4]		**Daytime % (7AM to 7 PM)**	**Evening % (7 PM to 10 PM)**	**Night % (10 PM to 7 AM)**	**Total % of Traffic Flow**
Automobiles		77.5	12.9	9.6	94.3
Medium Trucks		84.8	4.9	10.3	1.1
Heavy Trucks		86.5	2.7	10.8	4.5

Notes:
[1.] Existing Saturday ADT volumes from Kittelson & Associates, Inc.
[2] Project trip generation provided in the traffic study prepared for the project (Kittelson & Associates, Inc. 2021).
[3] Kittelson & Associates, Inc..
[4] https://dot.ca.gov/programs/traffic-operations/census

5.0 Existing Noise Environment

The existing noise environment due to traffic noise was calculated using the ADT levels provided by Kittelson & Associates, Inc. and the FHWA traffic noise model. All outdoor areas are 200 ft or more from the centerline of Peach Ave, so levels were projected at 200 ft. The existing level is 54.2 dBA Leq for daytime and 55.4 dBA CNEL. The expected ambient noise level without the project in 2035 is expected to be 56.4 dBA Leq for daytime and 57.6 dBA CNEL on the project site. Existing projections are provided in Appendix A.

The rail line only has two through trains a day, one during the day (6AM-6PM) and one at night (6PM - 6AM). The max speed of these trains is 25 mph. According to the Fresno General Plan, single event noise levels at a train crossing generally reach a maximum of 105-110 dBA at 100 ft from the track centerline due to the horn noise. Without the horn the levels are typically 85-90 dBA. The railway will only affect the ambient levels for a few minutes twice a day and is not representative of the typical noise levels for that area.

6.0 Future Noise Environment Impacts and Mitigation

This assessment analyzes future noise impacts to and from the project compares the results to the City's Noise Standards. Traffic noise impacts are analyzed from the adjacent subject roadways. The analysis details the estimated exterior noise levels.

6.1 Traffic Noise Impact

The main source of ambient noise to the site is traffic noise along S. Peach Ave. All outdoor use areas are 200 feet or more from the centerline of S. Peach Ave. The CNEL levels in 2035 are projected to be 57.6 dBA at 200 feet from the centerline of the road, which is below the satisfactory level of 65 dBA CNEL for sports and park use.

The project will create approximately 2,450 daily trips on Saturday. The increase in traffic noise to surrounding sites as a result of the project is 0.7 dBA. It takes a change of 3 dBA or more to hear a perceptible difference. Therefore, the impact is less than significant.

6.2 Noise Impacts to Off-Site Receptors Due to Stationary Noise Sources

The worst-case stationary noise was modeled using SoundPLAN 3D acoustical modeling software. This worst-case scenario models all operational noise operating at the same time for the full duration of an hour. The model utilizes the sound level data for the events specified within Section 4.2 of this report which includes parking, sports, and recreational activities. These activities together constitute the project's daytime levels. There is an existing wall on the southern half of the houses to the east of the project site which was modelled at 6' tall.

A total of four (4) receptors were modeled to accurately evaluate the proposed project's operational noise impact to adjacent land uses, one source at each neighboring property line. A receptor is denoted by a yellow dot. Exhibit E shows the model with project only operational noise for day Leq.

Ambient levels were determined by the FHWA traffic noise model. Where the ambient noise was below the limits in Table 2 from Section 10-102(b) of the municipal code, the assumed ambient was used.

Project Operational Noise Levels

"Project only" noise levels calculated by SoundPLAN are in Exhibit E and illustrate how the noise will propagate at the site. Worst-case operational noise levels are anticipated to range between 47.6 to 50.1 dBA Leq at the receptors R1 – R4.

Project Plus Ambient Operational Noise Levels

Project plus ambient noise level projections are provided in Table 5 (next page). Noise levels are anticipated to range between 55.7 to 65.6 dBA Leq at the receptors R1 – R4. The noise projections are

below the City's noise limits in Section 10-106 of the Municipal Code, which allows for the ambient plus five dB.

Table 5: Worst-Case Evening Predicted Operational Noise Levels (dBA)

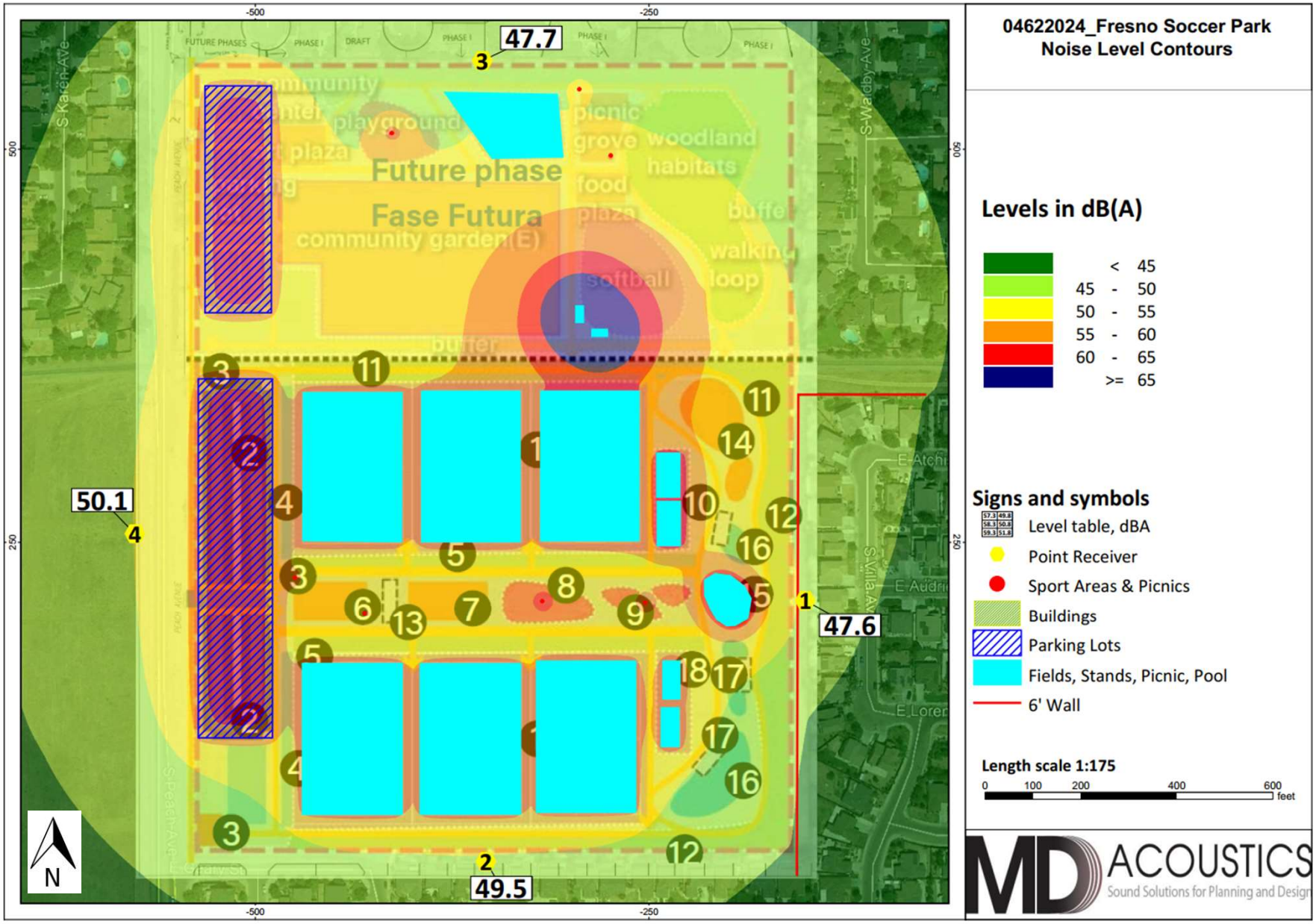
Receptor[1]	2035 Ambient Noise Level (Evening) (dBA, Leq(h))[2]	Project Noise Level (dBA, Leq(h))[3]	Total Combined Noise Level (dBA, Leq(h))	Evening Stationary Noise Limit (dBA, Leq (h))	Change in Noise Level as Result of Project
R1	55.0	47.6	55.7	**+5**	0.7
R2	55.0	49.5	56.1	**+5**	1.1
R3	55.0	47.7	55.7	**+5**	0.7
R4	65.5	50.1	65.6	**+5**	0.1

Notes:
1. Receptors 1-4 are residential.
2. Based on 2035 Peach traffic projections projected to the receptors.
3. See Exhibit E for the operational noise level projections at said receptors.

As already demonstrated in Table 5, the combined noise levels do not exceed the City's noise limit given by Section 10-106 of the Municipal Code of +5 the ambient level where the ambient level is defined in Section 10-102. Therefore, the project's impact is less than significant and no additional mitigation measures are required.

Exhibit E

Future Daytime Operational Noise Levels



7.0 Construction Noise Impact

The degree of construction noise may vary for different areas of the project site and also vary depending on the construction activities. Noise levels associated with the construction will vary with the different phases of construction.

7.1 Construction Noise

The Environmental Protection Agency (EPA) has compiled data regarding the noise generated characteristics of typical construction activities. The data is presented in Table 6.

Table 6: Typical Construction Noise Levels

Equipment Powered by Internal Combustion Engines[1]

Type	Noise Levels (dBA) at 50 Feet
Earth Moving	
Compactors (Rollers)	73 - 76
Front Loaders	73 - 84
Backhoes	73 - 92
Tractors	75 - 95
Scrapers, Graders	78 - 92
Pavers	85 - 87
Trucks	81 - 94
Materials Handling	
Concrete Mixers	72 - 87
Concrete Pumps	81 - 83
Cranes (Movable)	72 - 86
Cranes (Derrick)	85 - 87
Stationary	
Pumps	68 - 71
Generators	71 - 83
Compressors	75 - 86

Impact Equipment

Type	Noise Levels (dBA) at 50 Feet
Saws	71 - 82
Vibrators	68 - 82

Notes:
[1] Referenced Noise Levels from the Environmental Protection Agency (EPA)

Construction noise is considered a short-term impact and would be considered significant if construction activities are taken outside the allowable times as described in the City's Municipal Code (Section 10-109(a)).

Construction is anticipated to occur during the permissible hours according the City's Municipal Code. Construction noise will have a temporary or periodic increase in the ambient noise level above the existing within the project vicinity. Furthermore, noise reduction measures are provided to further reduce construction noise (Section 7.3). The impact is considered less than significant.

7.2 Construction Noise Reduction Measures

Construction operations must follow the City's General Plan and the Noise Ordinance, which states that construction, repair or excavation work performed must occur within the permissible hours. To further ensure that construction activities do not disrupt the adjacent land uses, the following measures should be taken:

1. Construction should occur during the permissible hours as defined in Section 10-109(a).

2. During construction, the contactor shall ensure all construction equipment is equipped with appropriate noise attenuating devices.

3. The contractor should locate equipment staging areas that will create the greatest distance between construction-related noise sources and sensitive receptors nearest the project site during all project construction.

4. Idling equipment should be turned off when not in use.

5. Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

8.0 References

State of California General Plan Guidelines: 1998. Governor's Office of Planning and Research

City of Fresno: General Plan Noise Element.

City of Fresno: Noise Ordinance-Section 10-105 & 10-109.

Appendix A:

Traffic Data

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date *(MM/DD/YYYY)*: 01 / 11 / 2019

B. Reporting Agency: ☒ Railroad ☐ Transit ☐ State ☐ Other

C. Reason for Update *(Select only one)*: ☒ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☐ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction

D. DOT Crossing Inventory Number: 757162V

Part I: Location and Classification Information

1. Primary Operating Railroad: San Joaquin Valley Railroad Company [SJVR]

2. State: CALIFORNIA

3. County: FRESNO

4. City / Municipality: ☐ In ☒ Near FRESNO

5. Street/Road Name & Block Number: SOUTH PEACH AVE | *(Street/Road Name)* | ** (Block Number)*

6. Highway Type & No.: NA

7. Do Other Railroads Operate a Separate Track at Crossing? ☐ Yes ☒ No
If Yes, Specify RR

8. Do Other Railroads Operate Over Your Track at Crossing? ☐ Yes ☒ No
If Yes, Specify RR

9. Railroad Division or Region: ☐ None PACIFIC

10. Railroad Subdivision or District: ☐ None EXETER

11. Branch or Line Name: ☒ None

12. RR Milepost: | 0210.01 | *(prefix) | (nnnn.nnn) | (suffix)*

13. Line Segment *: BC210.0

14. Nearest RR Timetable Station *: GOLDLEAF

15. Parent RR *(if applicable)*: ☒ N/A

16. Crossing Owner *(if applicable)*: ☒ N/A

17. Crossing Type: ☒ Public ☐ Private

18. Crossing Purpose: ☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.

19. Crossing Position: ☒ At Grade ☐ RR Under ☐ RR Over

20. Public Access *(if Private Crossing)*: ☐ Yes ☐ No

21. Type of Train: ☒ Freight ☐ Intercity Passenger ☐ Commuter ☐ Transit ☐ Shared Use Transit ☐ Tourist/Other

22. Average Passenger Train Count Per Day: ☐ Less Than One Per Day ☐ Number Per Day 0

23. Type of Land Use: ☒ Open Space ☐ Farm ☐ Residential ☐ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard

24. Is there an Adjacent Crossing with a Separate Number?: ☐ Yes ☒ No If Yes, Provide Crossing Number

25. Quiet Zone *(FRA provided)*: ☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established

26. HSR Corridor ID: ☒ N/A

27. Latitude in decimal degrees *(WGS84 std: nn.nnnnnnn)*: 36.7222621

28. Longitude in decimal degrees *(WGS84 std: -nnn.nnnnnnn)*: -119.7185241

29. Lat/Long Source: ☒ Actual ☐ Estimated

30.A. Railroad Use *

31.A. State Use *

30.B. Railroad Use *

31.B. State Use *

30.C. Railroad Use *

31.C. State Use *

30.D. Railroad Use *

31.D. State Use *

32.A. Narrative *(Railroad Use)* *****

32.B. Narrative *(State Use)* *****

33. Emergency Notification Telephone No. *(posted)*: 800-800-2203

34. Railroad Contact *(Telephone No.)*: 800-800-2203

35. State Contact *(Telephone No.)*: 415-703-3722

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains *(6 AM to 6 PM)*: 1

1.B. Total Night Thru Trains *(6 PM to 6 AM)*: 1

1.C. Total Switching Trains: 0

1.D. Total Transit Trains: 0

1.E. Check if Less Than One Movement Per Day ☐ How many trains per week? 14

2. Year of Train Count Data *(YYYY)*: 2016

3. Speed of Train at Crossing
3.A. Maximum Timetable Speed *(mph)* 25
3.B. Typical Speed Range Over Crossing *(mph)* From 1 to 25

4. Type and Count of Tracks
Main 1 Siding 0 Yard 0 Transit 0 Industry 0

5. Train Detection *(Main Track only)*
☐ Constant Warning Time ☒ Motion Detection ☐ AFO ☐ PTC ☐ DC ☐ Other ☐ None

6. Is Track Signaled? ☐ Yes ☒ No

7.A. Event Recorder ☐ Yes ☒ No

7.B. Remote Health Monitoring ☐ Yes ☒ No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date *(MM/DD/YYYY)*	PAGE 2	D. Crossing Inventory Number *(7 char.)*
01/11/2019		757162V

Part III: Highway or Pathway Traffic Control Device Information

1. Are there Signs or Signals? ☒ Yes ☐ No

2. Types of Passive Traffic Control Devices associated with the Crossing

2.A. Crossbuck Assemblies *(count)*	2.B. STOP Signs *(R1-1)* *(count)*	2.C. YIELD Signs *(R1-2)* *(count)*	2.D. Advance Warning Signs *(Check all that apply; include count)* ☒ None
0	0		☐ W10-1 _____ ☐ W10-3 _____ ☐ W10-11 _____ ☐ W10-2 _____ ☐ W10-4 _____ ☐ W10-12 _____

2.E. Low Ground Clearance Sign *(W10-5)*	2.F. Pavement Markings	2.G. Channelization Devices/Medians	2.H. EXEMPT Sign *(R15-3)*	2.I. ENS Sign *(I-13)* Displayed
☐ Yes *(count_____)* ☒ No	☒ Stop Lines ☐ Dynamic Envelope ☒ RR Xing Symbols ☐ None	☐ All Approaches ☐ Median ☐ One Approach ☒ None	☐ Yes ☒ No	☒ Yes ☐ No

2.J. Other MUTCD Signs ☐ Yes ☒ No	2.K. Private Crossing Signs *(if private)*	2.L. LED Enhanced Signs *(List types)*
Specify Type _____ Count _____ Specify Type _____ Count _____ Specify Type _____ Count _____	☐ Yes ☐ No	

3. Types of Train Activated Warning Devices at the Grade Crossing *(specify count of each device for all that apply)*

3.A. Gate Arms *(count)*	3.B. Gate Configuration	3.C. Cantilevered *(or Bridged)* Flashing Light Structures *(count)*	3.D. Mast Mounted Flashing Lights *(count of masts)* 2	3.E. Total Count of Flashing Light Pairs
Roadway 2 Pedestrian 0	☒ 2 Quad ☐ Full *(Barrier)* Resistance ☐ 3 Quad ☐ 4 Quad ☐ Median Gates	Over Traffic Lane 0 ☐ Incandescent Not Over Traffic Lane 0 ☐ LED	☒ Incandescent ☐ LED ☒ Back Lights Included ☐ Side Lights Included	4

3.F. Installation Date of Current Active Warning Devices: *(MM/YYYY)*	3.G. Wayside Horn	3.H. Highway Traffic Signals Controlling Crossing	3.I. Bells *(count)*
_____/_____ ☒ Not Required	☐ Yes Installed on *(MM/YYYY)* _____/_____ ☒ No	☐ Yes ☒ No	2

3.J. Non-Train Active Warning	3.K. Other Flashing Lights or Warning Devices
☐ Flagging/Flagman ☐ Manually Operated Signals ☐ Watchman ☐ Floodlighting ☒ None	Count 0 Specify type _____

4.A. Does nearby Hwy Intersection have Traffic Signals?	4.B. Hwy Traffic Signal Interconnection	4.C. Hwy Traffic Signal Preemption	5. Highway Traffic Pre-Signals	6. Highway Monitoring Devices *(Check all that apply)*
☐ Yes ☒ No	☒ Not Interconnected ☐ For Traffic Signals ☐ For Warning Signs	☐ Simultaneous ☐ Advance	☐ Yes ☒ No Storage Distance * _____ Stop Line Distance * _____	☐ Yes - Photo/Video Recording ☐ Yes – Vehicle Presence Detection ☒ None

Part IV: Physical Characteristics

1. Traffic Lanes Crossing Railroad	2. Is Roadway/Pathway Paved?	3. Does Track Run Down a Street?	4. Is Crossing Illuminated? *(Street lights within approx. 50 feet from nearest rail)*
☐ One-way Traffic ☒ Two-way Traffic ☐ Divided Traffic Number of Lanes 2	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* _____/_____ Width * _____ Length * _____
☐ 1 Timber ☒ 2 Asphalt ☐ 3 Asphalt and Timber ☐ 4 Concrete ☐ 5 Concrete and Rubber ☐ 6 Rubber ☐ 7 Metal
☐ 8 Unconsolidated ☐ 9 Composite ☐ 10 Other *(specify)* _____

6. Intersecting Roadway within 500 feet?	7. Smallest Crossing Angle	8. Is Commercial Power Available? *
☐ Yes ☒ No If Yes, Approximate Distance *(feet)* _____	☐ 0° – 29° ☐ 30° – 59° ☒ 60° - 90°	☒ Yes ☐ No

Part V: Public Highway Information

1. Highway System	2. Functional Classification of Road at Crossing	3. Is Crossing on State Highway System?	4. Highway Speed Limit
☐ (01) Interstate Highway System ☐ (02) Other Nat Hwy System (NHS) ☒ (03) Federal AID, Not NHS ☐ (08) Non-Federal Aid	☐ (0) Rural ☒ (1) Urban ☐ (1) Interstate ☐ (5) Major Collector ☐ (2) Other Freeways and Expressways ☐ (3) Other Principal Arterial ☐ (6) Minor Collector ☒ (4) Minor Arterial ☐ (7) Local	☐ Yes ☒ No	_____ MPH ☐ Posted ☐ Statutory

5. Linear Referencing System *(LRS Route ID)* *

6. LRS Milepost *

7. Annual Average Daily Traffic *(AADT)*	8. Estimated Percent Trucks	9. Regularly Used by School Buses?	10. Emergency Services Route
Year 1988 AADT 006400	20 %	☐ Yes ☒ No Average Number per Day 0	☐ Yes ☐ No

Submission Information - *This information is used for administrative purposes and is not available on the public website.*

Submitted by _____ Organization _____ Phone _____ Date _____

Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: 2021 E

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	8,250	
SPEED =	40	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	20	
ROAD ELEVATION =	0.0	
GRADE =	1.0	%
PK HR VOL =	825	

RECEIVER INPUT DATA

RECEIVER DISTANCE =	200	
DIST C/L TO WALL =	50	
RECEIVER HEIGHT =	5.0	
WALL DISTANCE FROM RECEIVER	150	
PAD ELEVATION =	0.5	
ROADWAY VIEW: LF ANGLE=	-90	
RT ANGLE=	90	
DF ANGLE=	180	

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	54.8	52.9	51.1	45.0	53.7	54.3
MEDIUM TRUCKS	46.5	45.0	38.6	37.1	45.5	45.8
HEAVY TRUCKS	47.4	45.9	36.9	38.2	46.5	46.6
NOISE LEVELS (dBA)	56.0	54.2	51.5	46.4	55.0	55.4

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	54.8	52.9	51.1	45.0	53.7	54.3
MEDIUM TRUCKS	46.5	45.0	38.6	37.1	45.5	45.8
HEAVY TRUCKS	47.4	45.9	36.9	38.2	46.5	46.6
NOISE LEVELS (dBA)	56.0	54.2	51.5	46.4	55.0	55.4

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	21	46	99	214
LDN	20	43	92	199

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: 2021 E+P

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	10,700
SPEED =	40
PK HR % =	10
NEAR LANE/FAR LANE DIS	20
ROAD ELEVATION =	0.0
GRADE =	1.0 %
PK HR VOL =	1,070

RECEIVER INPUT DATA

RECEIVER DISTANCE =		200
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		150
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	55.9	54.0	52.2	46.2	54.8	55.4
MEDIUM TRUCKS	47.6	46.1	39.7	38.2	46.6	46.9
HEAVY TRUCKS	48.5	47.1	38.0	39.3	47.6	47.8
NOISE LEVELS (dBA)	57.1	55.3	52.6	47.5	56.1	56.6

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	55.9	54.0	52.2	46.2	54.8	55.4
MEDIUM TRUCKS	47.6	46.1	39.7	38.2	46.6	46.9
HEAVY TRUCKS	48.5	47.1	38.0	39.3	47.6	47.8
NOISE LEVELS (dBA)	57.1	55.3	52.6	47.5	56.1	56.6

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	25	55	118	255
LDN	24	51	110	236

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: 2035 E

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	13,600	
SPEED =	40	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	20	
ROAD ELEVATION =	0.0	
GRADE =	1.0	%
PK HR VOL =	1,360	

RECEIVER INPUT DATA

RECEIVER DISTANCE =		200
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		150
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	30	64	139	299
LDN	28	60	129	277

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: 2035 E+P

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	16,050
SPEED =	40
PK HR % =	10
NEAR LANE/FAR LANE DIS	20
ROAD ELEVATION =	0.0
GRADE =	1.0 %
PK HR VOL =	1,605

RECEIVER INPUT DATA

RECEIVER DISTANCE =		200
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		150
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	57.6	55.7	54.0	47.9	56.6	57.2
MEDIUM TRUCKS	49.4	47.9	41.5	39.9	48.4	48.6
HEAVY TRUCKS	50.3	48.8	39.8	41.0	49.4	49.5
NOISE LEVELS (dBA)	58.9	57.1	54.4	49.3	57.8	58.3

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	57.6	55.7	54.0	47.9	56.6	57.2
MEDIUM TRUCKS	49.4	47.9	41.5	39.9	48.4	48.6
HEAVY TRUCKS	50.3	48.8	39.8	41.0	49.4	49.5
NOISE LEVELS (dBA)	58.9	57.1	54.4	49.3	57.8	58.3

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	33	72	155	334
LDN	31	67	144	309

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: R1

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	13,600
SPEED =	40
PK HR % =	10
NEAR LANE/FAR LANE DIS	20
ROAD ELEVATION =	0.0
GRADE =	1.0 %
PK HR VOL =	1,360

RECEIVER INPUT DATA

RECEIVER DISTANCE =		1,300
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		1,250
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	1299.97	- -
MEDIUM TRUCKS	4.0	1299.96	- -
HEAVY TRUCKS	8.0	1299.96	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	44.7	42.8	41.1	35.0	43.6	44.2
MEDIUM TRUCKS	36.4	34.9	28.6	27.0	35.5	35.7
HEAVY TRUCKS	37.3	35.9	26.9	28.1	36.5	36.6
NOISE LEVELS (dBA)	46.0	44.2	41.5	36.4	44.9	45.4

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	44.7	42.8	41.1	35.0	43.6	44.2
MEDIUM TRUCKS	36.4	34.9	28.6	27.0	35.5	35.7
HEAVY TRUCKS	37.3	35.9	26.9	28.1	36.5	36.6
NOISE LEVELS (dBA)	46.0	44.2	41.5	36.4	44.9	45.4

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	30	64	139	299
LDN	28	60	128	277

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: R2

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	13,600	
SPEED =	40	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	20	
ROAD ELEVATION =	0.0	
GRADE =	1.0	%
PK HR VOL =	1,360	

RECEIVER INPUT DATA

RECEIVER DISTANCE =		200
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		150
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	30	64	139	299
LDN	28	60	129	277

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: R3

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	13,600
SPEED =	40
PK HR % =	10
NEAR LANE/FAR LANE DIS	20
ROAD ELEVATION =	0.0
GRADE =	1.0 %
PK HR VOL =	1,360

RECEIVER INPUT DATA

RECEIVER DISTANCE =		200
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		150
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	199.78	- -
MEDIUM TRUCKS	4.0	199.76	- -
HEAVY TRUCKS	8.0	199.77	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	56.9	55.0	53.3	47.2	55.8	56.4
MEDIUM TRUCKS	48.6	47.1	40.8	39.2	47.7	47.9
HEAVY TRUCKS	49.5	48.1	39.1	40.3	48.7	48.8
NOISE LEVELS (dBA)	58.2	56.4	53.7	48.6	57.1	57.6

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	30	64	139	299
LDN	28	60	129	277

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT: FRESNO SOCCOR COMPLEX
ROADWAY: S. PEACH AVE
LOCATION: R4

JOB #: 0462-20-24
DATE: 11-Jan-21
ENGINEER: M. Dickerson

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	13,600	
SPEED =	40	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	20	
ROAD ELEVATION =	0.0	
GRADE =	1.0	%
PK HR VOL =	1,360	

RECEIVER INPUT DATA

RECEIVER DISTANCE =		50
DIST C/L TO WALL =		50
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		0
PAD ELEVATION =		0.5
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.775	0.129	0.096	0.9742
MEDIUM TRUCK	0.848	0.049	0.103	0.0184
HEAVY TRUCKS	0.865	0.027	0.108	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	49.11	- -
MEDIUM TRUCKS	4.0	49.01	- -
HEAVY TRUCKS	8.0	49.05	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	66.1	64.2	62.4	56.3	65.0	65.6
MEDIUM TRUCKS	57.8	56.3	49.9	48.4	56.8	57.1
HEAVY TRUCKS	58.7	57.3	48.2	49.5	57.8	58.0
NOISE LEVELS (dBA)	67.3	65.5	62.8	57.7	66.3	66.8

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	66.1	64.2	62.4	56.3	65.0	65.6
MEDIUM TRUCKS	57.8	56.3	49.9	48.4	56.8	57.1
HEAVY TRUCKS	58.7	57.3	48.2	49.5	57.8	58.0
NOISE LEVELS (dBA)	67.3	65.5	62.8	57.7	66.3	66.8

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	30	66	141	304
LDN	28	61	131	282

Appendix B:

SoundPLAN Input/Outputs

Fresno Soccer Park
Octave spectra of the sources in dB(A) - Situation 2: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Aquatic Center	Area	773.53			62.0	90.9	0.0	0.0		0	Sports	Open-air swimming pools, lawn				90.9					
Fitness Station	Point				78.0	78.0	0.0	0.0		0	Sports	Playground 20 Kids - 8 Feet	50.7	58.4	63.0	65.7	75.0	73.1	66.5	52.5	35.6
Futsall Court 1	Area	444.29			62.0	88.5	0.0	0.0		0	Sports	Soccer game		72.4	74.6	78.9	83.1	82.8	82.5	68.2	
Futsall Court 2	Area	448.56			62.0	88.5	0.0	0.0		0	Sports	Soccer game		72.5	74.7	78.9	83.2	82.8	82.6	68.3	
Pickleball 1	Area	288.36			58.4	83.0	0.0	0.0		0	Sports	Tennis court		67.1	73.0	75.7	79.7	74.6	70.9	59.3	
Pickleball 2	Area	308.81			58.1	83.0	0.0	0.0		0	Sports	Tennis court		67.1	73.0	75.7	79.7	74.6	70.9	59.3	
Picnic 1	Point				70.0	70.0	0.0	0.0		0	Sports	Speaking, raised voice (beer garden)				70.0					
Picnic 2	Point				70.0	70.0	0.0	0.0		0	Sports	Speaking, raised voice (beer garden)				70.0					
Picnic 3	Point				70.0	70.0	0.0	0.0		0	Sports	Speaking, raised voice (beer garden)				70.0					
Picnic 4	Point				70.0	70.0	0.0	0.0		0	Sports	Speaking, raised voice (beer garden)				70.0					
Playground 1	Point				78.0	78.0	0.0	0.0		0	100%/24h	Playground 20 Kids - 8 Feet	50.7	58.4	63.0	65.7	75.0	73.1	66.5	52.5	35.6
Playground 2	Point				78.0	78.0	0.0	0.0		0	Sports	Playground 20 Kids - 8 Feet	50.7	58.4	63.0	65.7	75.0	73.1	66.5	52.5	35.6
Soccer 1	Area	6053.75			55.0	92.8	0.0	0.0		0	Sports	Soccer game		76.8	79.0	83.2	87.5	87.1	86.9	72.6	
Soccer 2	Area	6141.04			55.0	92.9	0.0	0.0		0	Sports	Soccer game		76.8	79.0	83.3	87.5	87.2	86.9	72.6	
Soccer 3	Area	6079.40			55.0	92.8	0.0	0.0		0	Sports	Soccer game		76.8	79.0	83.2	87.5	87.1	86.9	72.6	
Soccer 4	Area	6221.14			55.0	92.9	0.0	0.0		0	Sports	Soccer game		76.9	79.1	83.3	87.6	87.2	87.0	72.7	
Soccer 5	Area	6229.99			55.0	92.9	0.0	0.0		0	Sports	Soccer game		76.9	79.1	83.3	87.6	87.2	87.0	72.7	
Soccer 6	Area	6167.74			55.0	92.9	0.0	0.0		0	Sports	Soccer game		76.9	79.1	83.3	87.6	87.2	87.0	72.7	
Softball stand 1	Area	56.67			83.0	100.5	0.0	0.0		0	Sports	Spectator area (seats)				100.5					
Softball Stand 2	Area	63.07			83.0	101.0	0.0	0.0		0	Sports	Spectator area (seats)				101.0					
Sports Court	Area	2469.90			36.1	70.0	0.0	0.0		0	Sports	Big play and sports areas w. spectator				70.0					
North Lot	PLot	6077.47			57.9	95.7	0.0	0.0		0	Sports	Typical spectrum	79.1	90.7	83.2	87.7	87.8	88.2	85.5	79.3	66.5

Appendix F

Transportation
Impact Study

Transportation Impact Study

Southeast Fresno Regional Park

Fresno, California

February 2021

Transportation Impact Study

Southeast Fresno Regional Park

Fresno, California

Prepared For:
De Novo Planning Group

Prepared By:
Kittelson & Associates, Inc.
155 Grand Avenue, Suite 505
Oakland, California 94612
(510) 839-1742

Project Manager: Aaron Elias, P.E.
Project Principal: Mike Aronson, P.E.
Transportation Analyst: Andrew McIntyre

Project No. 25496

February 2021

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INTRODUCTION

This report presents the findings of the transportation impact analysis conducted for a new regional park, located at 2155 South Peach Avenue in Fresno, California. The Southeast (SE) Fresno Regional Park Project (herein referred to as the "Project") would develop a 49-acre park in southeast Fresno, including an 18.5-acre regional park north of the railroad tracks and a 30.5-acre soccer complex south of the railroad tracks.

The purpose of the study is to assess potential transportation deficiencies resulting from the implementation of the Project on the surrounding transportation system and to identify feasible solutions to improve the deficiencies. The study also serves as the transportation analysis component of an environmental impact review document that is being prepared concurrently for the Project. The project location and vicinity are shown in Figure 1.

Appendix 1 provides an overview of the transportation terminology used in this report.

PROJECT DESCRIPTION

The proposed Project would develop a regional park and soccer complex on a site that encompasses two park parcels (Northern Parcel and Southern Parcel) at 2155 South Peach Avenue. The two park parcels are rectangular in shape and are separated by a 60-foot-wide Southern Pacific Railroad parcel, which includes a railroad track and the Braley canal. Land uses immediately surrounding the Project site include low to medium density residential. The Project site land use designation is Open Space – Community Park.

The Northern Parcel encompasses 18.5 acres and anticipates development of the following features:

- Open space play areas, picnic areas and equipment playground areas;
- Ornamental landscape buffer, woodland area, and water conservation features;
- A multipurpose trail (accommodating bicyclists, joggers, pedestrians, and roller bladers);
- A Veterans Memorial garden;
- Dog park;
- Two basketball courts;
- A softball diamond;
- Two outdoor futsal courts;
- Office space, maintenance, and storage buildings;
- Concession stand, restrooms, and a parking area;
- Community center complex; and
- A multi-purpose hall.

The Southern Parcel encompasses approximately 30 acres and anticipates development of the following features:

- Two synthetic grass soccer fields;
- Six natural grass soccer fields; and
- Indoor soccer/futsal facility-two courts.

The hours of operations of the regional park components will be from sunrise to sunset. This facility will be open on a first-come first-serve basis, and reservations of space will be possible. It will be open all days of the calendar year. The Community Garden will only be available to individuals assigned space to grow vegetables.

The hours of operation of the area occupied by the futsal courts and soccer fields will be from 3:00 pm to 9:00 pm weekdays, and from 7:00 am to 9:00 pm on weekends. It is anticipated that 240 days during the 365 days of the year (65%), these facilities will be used to hold leagues for children and adults. The scheduling of tournaments for both sports for children and adults will occupy about 82 days of the year (22%). The remaining time will be used to allow the facilities to rest and to rent them to teams for practice activities during off-season time periods.

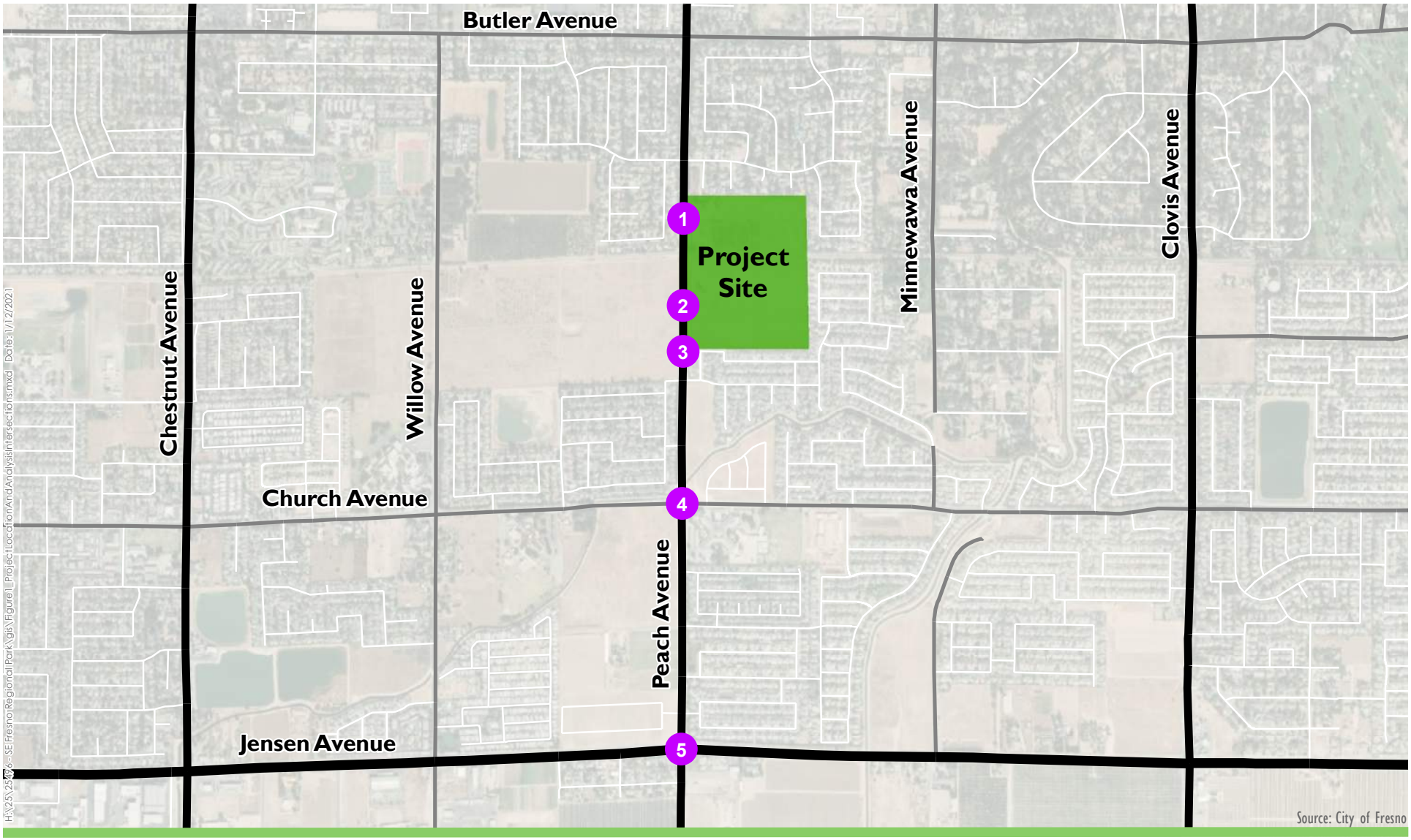


Figure 1

Project Location and Analysis Intersections
Fresno, CA

KITTELSON & ASSOCIATES

ANALYSIS APPROACH

The analysis assessed the Project's potential effects on vehicular traffic, transit operations, bicycle transportation, and pedestrian transportation.

Analysis Scenarios

Vehicle volumes were evaluated to assess the performance of the circulation system for the peak hours occurring during the weekday PM (4:00 – 6:00 PM) and Saturday midday (11:00 AM – 1:00 PM) peak periods, for the following scenarios (these scenarios are described in more detail in their respective sections):

- Existing Conditions
- Existing plus Project Conditions
- Cumulative (2035) Conditions
- Cumulative plus Project Conditions

Study Locations

Intersections were selected for analysis based upon the anticipated distributional patterns of Project traffic. The selections were made in consultation with the City of Fresno. The intersection locations selected for analysis are listed below and shown in Figure 1.

Study Intersections

1. Regional Park Driveway & South Peach Avenue
2. Soccer Complex Driveway & South Peach Avenue
3. East Geary Street & South Peach Avenue
4. East Church Avenue & South Peach Avenue
5. East Jensen Avenue & South Peach Avenue

EXISTING CONDITIONS

A description of the existing roadway, transit, bicycle, and pedestrian components of the transportation system within the study area follows.

ROADWAY NETWORK

The existing roadway network in the study area is made up of arterial and collector roads. Roadway classifications listed are from the City of Fresno General Plan[1].

Arterials

Peach Avenue

Peach Avenue is a two to four-lane, north-south arterial roadway with a posted speed limit of 40-45 miles per hour near the Project site. The roadway is divided with four lanes north and south of the Project site (north of the railroad tracks; south of the Project at Geary Street) but becomes an undivided two-lane roadway immediately adjacent to the Project site. Peach Avenue runs uninterrupted north from Golden State Boulevard to McKinley Avenue and provides access to CA-180 and the Fresno Airport.

Sidewalks are present on both sides of Peach Avenue south of Florence Avenue; on the west side between the railroad tracks and Hamilton Avenue; and on both sides north of Hamilton Avenue. A separated asphalt path is present on the east side of the street immediately adjacent to the Project site from Geary Street to the railroad tracks. Class II bike lanes exist on the east side between Jensen Avenue and Church Avenue; on the west side between Church Avenue and Florence Avenue; on the east side between Florence Avenue and Geary Street; and on the west side north of Butler Avenue. Class II bike lanes have been proposed to fill in gaps along the entire corridor from North Avenue to Kings Canyon Road[1].

A proposed capital improvement project is planned for Peach Avenue, which would widen the roadway between Florence Avenue and Butler Avenue to two lanes in each direction with a raised median. The plan includes sidewalks on both sides of the roadway, as well as a pedestrian crossing of the railroad tracks.

[1] City of Fresno Active Transportation Plan (2017)

Jensen Avenue

Jensen Avenue is a divided four-lane, east-west super arterial roadway with a posted speed limit of 55 miles per hour near the Project site.

A Class I bike path currently exists along the north side of Jensen Avenue for less than ½ mile between Peach Avenue and the canal to the east. The 2017 City of Fresno Active Transportation (ATP) proposed to continue the Class I bike path along the north side from the eastern City limits west to Golden State Boulevard. Class II bike lanes are also proposed on both sides of Jensen Avenue for its entire length within the City. Sidewalks are currently not present along Jensen Avenue near the Project site, with the exception of the Class I bike path along the north side near Peach Avenue.

Collectors

Church Avenue

Church Avenue is a two to four-lane, east-west collector roadway with a posted speed limit of 35-40 miles per hour near the Project site. East of Villa Avenue/Orangewood Drive, Church Avenue has two lanes in each direction with a continuous center turn lane. West of that section, the roadway narrows to two lanes with no center turn lane. On-street parking is permitted along the south side of the road between Peach Avenue and just east of Waldby Avenue, adjacent to Storey Elementary School.

Intermittent sidewalks exist near the Project site in the following locations:

- Along the north side between Willow Avenue and Adler Avenue
- Along both sides between Adler Avenue and Helm Avenue
- Along the north side between Helm Avenue to Peach Avenue.
- Along the south side between Peach Avenue and Waldby Avenue.
- Along the north side between Waldby Avenue and Villa Avenue.
- Along both sides between Villa Avenue and Rabe Avenue.

Class II bike lanes are present along most of Church Avenue near the Project site, with the exception of three segments adjacent to vacant lots: the north side between Waldby Avenue and Peach Avenue; the south side just west of Villa Avenue; and the south side between Peach Avenue and Helm Avenue. The ATP proposes to fill in gaps west of Peach Avenue to provide continuous Class II bike lanes from Peach Avenue to Maple Avenue.

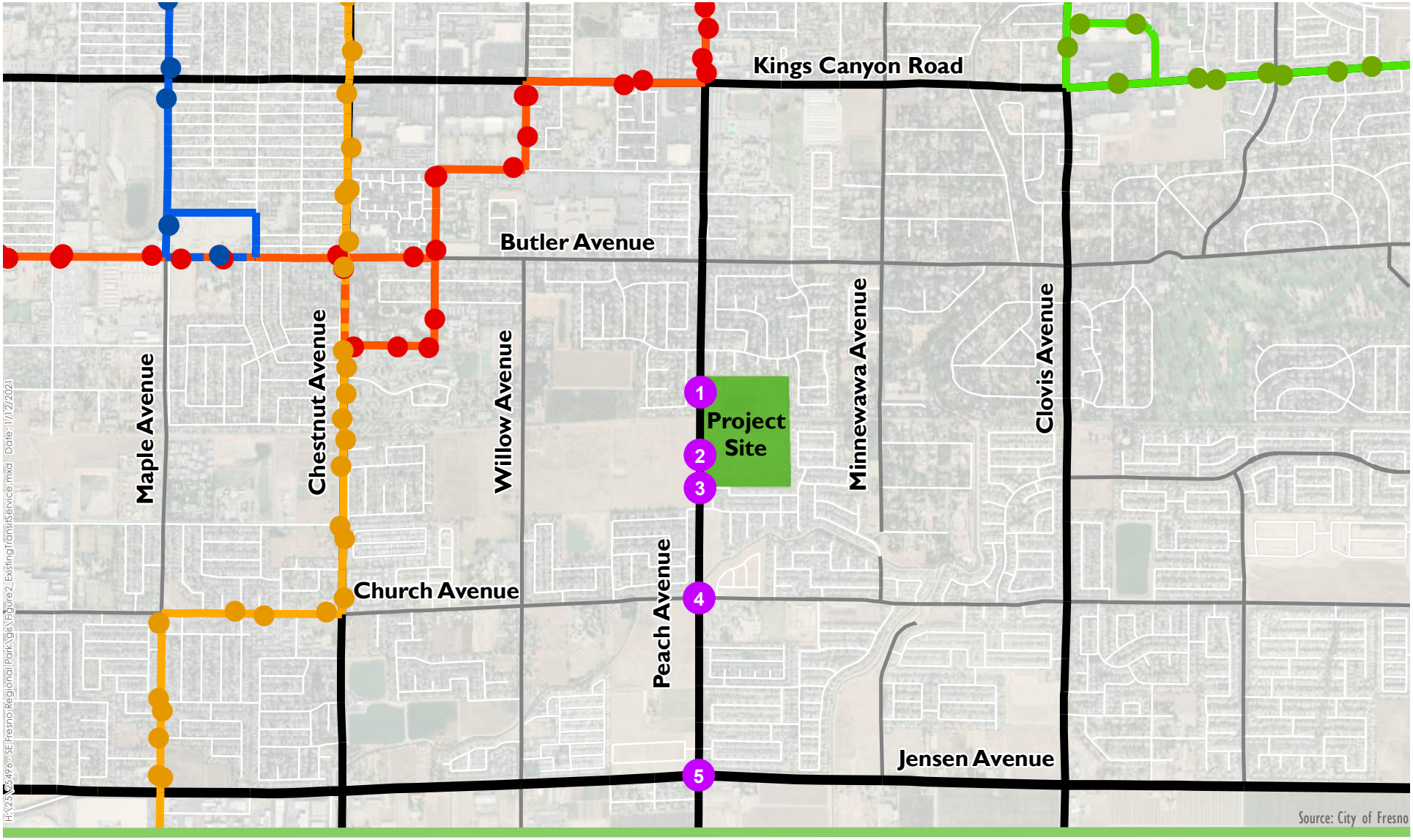
TRANSIT FACILITIES

Fresno is primarily served by the Fresno Area Express (FAX) transit system which operates bus and paratransit service. Regional connections are provided by the Fresno County Rural Transit Agency (FCRTA) and Amtrak for travel outside of the Fresno-Clovis Metropolitan Area.

Fresno Area Express (FAX)

FAX provides the principal bus service in the city of Fresno. It operates seventeen routes and Handy Ride, a paratransit operation, with a fleet of over 100 buses.

Currently, no FAX routes directly serve the Project site. The nearest bus stops are located almost one mile north at the intersection of Peach Avenue and Kings Canyon Road. These bus stops serve Route 1 and Route 26. Route 1 is a Bus Rapid Transit (BRT) line that runs along Kings Canyon Road to the Downtown Transit Center, and north along Blackstone Avenue to the commercial area near Nees Avenue. Route 26 is a fixed route that runs from Fresno Yosemite International Airport south along Peach Avenue to Kings Canyon Road, west to downtown Fresno, and north along Palm Avenue to Nees Avenue. Figure 2 shows the Project site and nearest transit service.



FAX Transit Routes & Stops

- Route 22
- Route 26
- Route 33
- Route 41

- Project Location
- Analysis Intersections

- Super Arterial
- Arterial
- Collector
- Local

0 1,480 Feet

Figure 2

Existing Transit Service
Fresno, CA

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BICYCLE AND PEDESTRIAN FACILITIES

Bicycle and pedestrian facilities are important components of the transportation network in the study area. They not only offer non-vehicular opportunities for both commute and recreational trips but also provide connections to the region's transit network.

Existing Bicycle Facilities

Bicycle facilities are defined by the following four classes[2]:

- **Class I** – Provides a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized.
- **Class II** – Provides a restricted right-of-way designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and crossflows by pedestrians and motorists permitted.
- **Class III** – Provides a right-of-way designated by signs or permanent markings and shared with pedestrians and motorists.
- **Class IV** – Provides a restricted right-of-way designated lane for the exclusive use of bicyclists that is separated by a vertical element to provide further separation from motor vehicle traffic.

The City of Fresno adopted the Active Transportation Plan (ATP) in March 2017. This plan identifies existing and future planned bicycle facilities within the City's jurisdiction.

The following bikeways are currently present within the study area. They are shown graphically in Figure 3:

- **Class I Bike Paths**
  - Jensen Avenue – north side between Peach Avenue and canal to the east
  - Fancher No. 6 Canal – south side between Waldby Avenue and Minnewawa Avenue
- **Class II Bike Lanes**
  - Peach Avenue – east side between Jensen Avenue and Church Avenue
  - Peach Avenue – west side between Church Avenue and Florence Avenue
  - Peach Avenue – east side between Florence Avenue and Geary Street
  - Peach Avenue – west side north of Butler Avenue
  - Church Avenue – both side between Willow Avenue and Helm Avenue
  - Church Avenue – north side between Helm Avenue and Peach Avenue
  - Church Avenue – south side between Peach Avenue and Waldby Avenue
  - Church Avenue – north side between Waldby Avenue and Villa Avenue
  - Church Avenue – both sides between Villa Avenue and Clovis Avenue

[2] As detailed in Chapter 1000 of the Highway Design Manual (Caltrans, 2015).

Planned and Proposed Bicycle Facilities

The ATP includes planned and proposed bikeway facilities near the Project site. They are discussed below and shown in Figure 3:

- **Class I Bike Paths**
  - Jensen Avenue – north side between eastern City limits and Golden State Boulevard
  - Fancher No. 6 Canal – Peach Avenue to Clovis Avenue
- **Class II Bike Lanes**
  - Peach Avenue – both sides between North Avenue and Kings Canyon Road
  - Jensen Avenue – both sides between eastern City limits and western City limits
  - Church Avenue – south side between Helm Avenue and Peach Avenue

The ATP developed a priority network of bicycle facilities to provide connections across the City and allow bicyclists to access key destinations. Priority corridors near the Project site include Church Avenue between Maple Avenue and Peach Avenue (Class II) and Fancher No. 6 Canal between Peach Avenue and Clovis Avenue (Class I)

Existing Pedestrian Facilities

Pedestrian facilities are intermittent surrounding the Project site. Sidewalks are not present immediately adjacent to the site along Peach Avenue, but a separated asphalt path exists along the east side of Peach Avenue between Geary Street and the railroad tracks. Generally, sidewalks are absent along vacant lots within the Project vicinity, along Peach Avenue, Church Avenue, and Jensen Avenue.

Locations of existing pedestrian facilities are described below and shown in Figure 4.

Peach Avenue

- Both sides south of Florence Avenue
- West side between the railroad tracks and Hamilton Avenue
- Both sides north of Hamilton Avenue.
- East side immediately adjacent to the Project site from Geary Street to the railroad tracks (separated asphalt path)

Jensen Avenue

- North side between Peach Avenue and canal (Class 1 bicycle path)
- North side between Willow Avenue and Helm Avenue

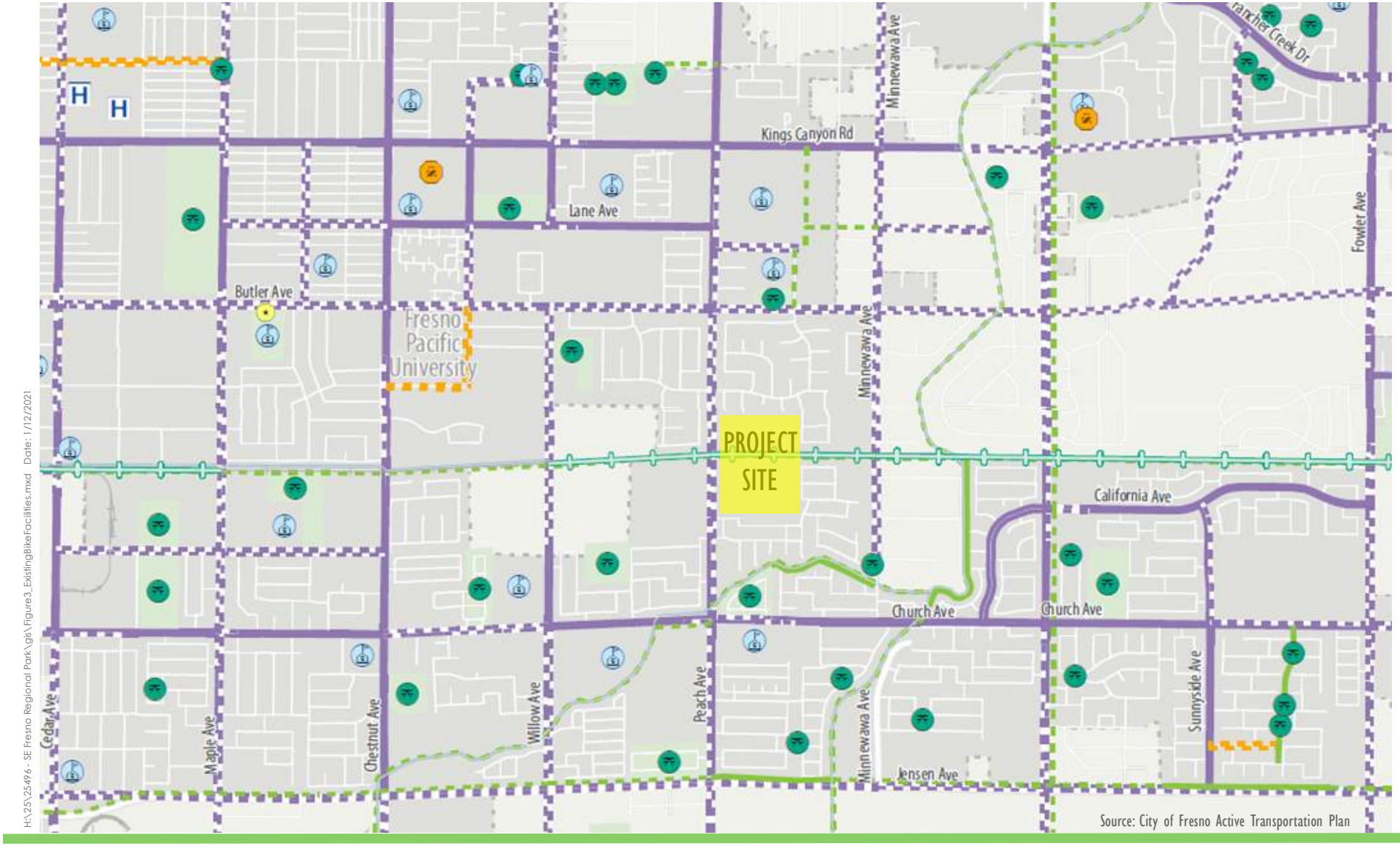
Church Avenue

- North side between Willow Avenue and Adler Avenue
- Both sides between Adler Avenue and Helm Avenue
- North side between Helm Avenue to Peach Avenue.
- South side between Peach Avenue and Waldby Avenue.

- North side between Waldby Avenue and Villa Avenue.
- Both sides between Villa Avenue and Rabe Avenue.

Planned and Proposed Pedestrian Facilities

The ATP proposed filling in all sidewalk gaps along Peach Avenue, Church Avenue, and Jensen Avenue within the study area, with the exception of small segments adjacent to vacant lots along Jensen Avenue. A project to widen Peach Avenue is also planned, which includes sidewalks that will connect the north and south parcel across the existing railroad tracks.



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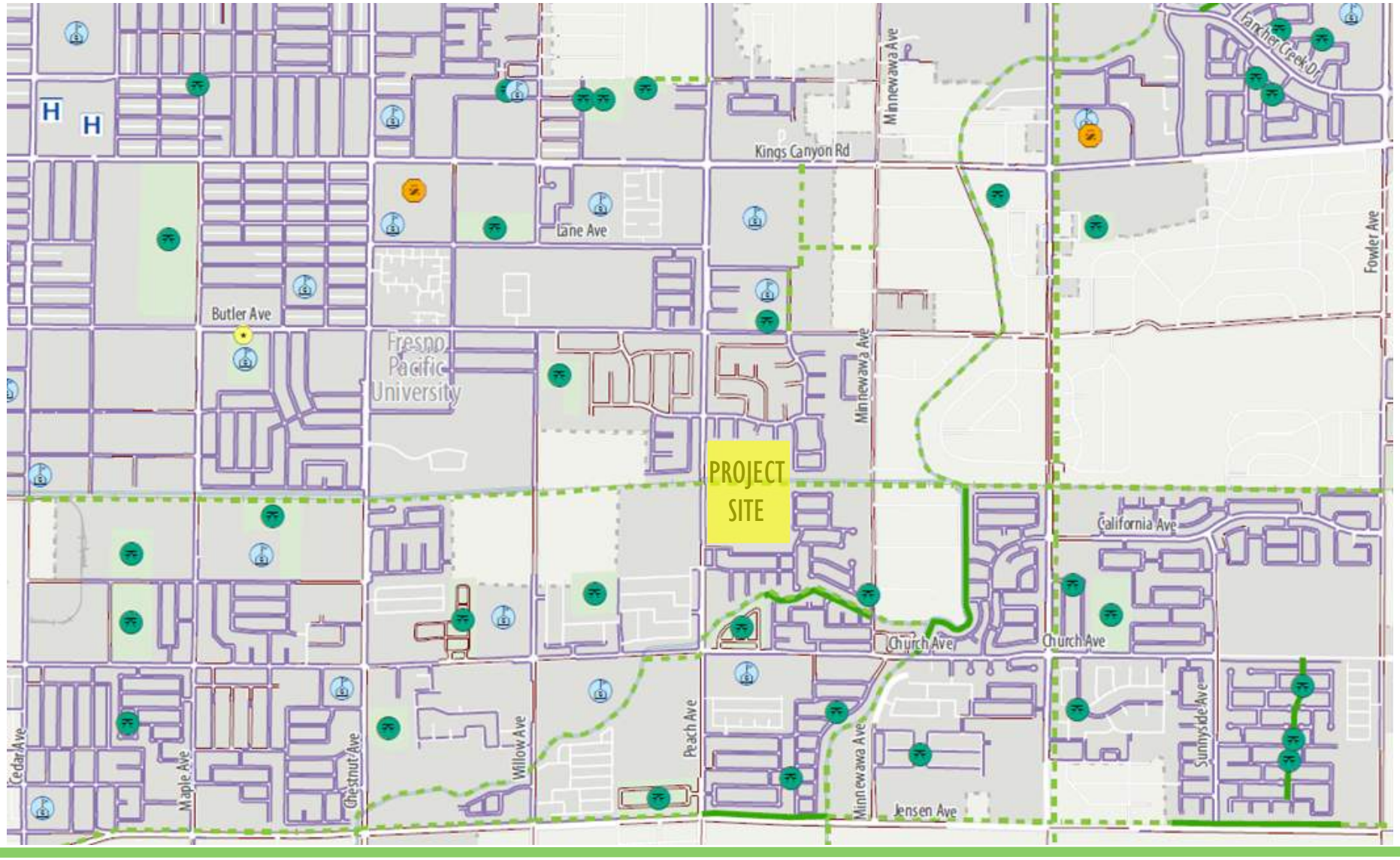
Planned Bicycle Facilities
- Class I Bike Path
- Class II Bike Lane
- Class III Bike Route
- Class IV Separated Bikeways

Key Destinations
- Higher Education
- Airport
- Shopping
- Hospital
- Manch
- City H
- Neigh
- Amtra
- Park-a
- School
- Park
- Rail
- Rails-to-Trails
- High Speed Rail Alignment

Figure 3

Existing & Proposed Bicycle Facilities

KITTELSON & ASSOCIATES



H:\25\25496 - SE Fresno Regional Park\gis\Figure3_ExistingBikeFacilities.mxd Date: 1/12/2021

Source: City of Fresno Active Transportation Plan

Figure 4

Existing & Proposed Pedestrian Facilities

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EXISTING TRAFFIC CONDITIONS

The existing operations of the study intersections were assessed for the weekday evening peak period (4:00 PM to 6:00 PM) and Saturday midday peak period (11:00 AM to 1:00 PM), which are anticipated to be the busiest times for the Project. The analysis peak hours represent the hours with the highest vehicle volumes during the study periods. Data were collected at three of the five study intersections (intersections 3, 4, and 5) on the following dates:

- Thursday, December 10, 2020
- Saturday, December 12, 2020
- Thursday, December 17, 2020
- Saturday, December 19, 2020

Appendix 2 provides the intersection turn movement counts collected at each intersection. Count data were not collected at study intersections 1 and 2 since these are both future driveways to the Project and do not have entering and exiting traffic today. Through volumes on Peach Avenue at these locations were derived from the data collected at S. Peach Avenue and Geary Street (intersection 3).

Analysis Methodologies and Level of Service Standards

"Level of service" (LOS) describes the operating conditions experienced by users of a facility. Level of service for traffic is a qualitative measure of the effect of a number of factors, including speed and travel time, traffic interruptions, freedom to maneuver, driving comfort, and convenience. Levels of service are designated A through F from best to worst, which cover the entire range of traffic operations that might occur. Level of service A through E generally represents traffic volumes at less than roadway capacity, while LOS F represents over capacity and/or forced flow conditions.

The LOS at the study intersections was analyzed using methodologies described in the 6th Edition of the *Highway Capacity Manual* (HCM 6), as implemented in the analysis software program Vistro. The LOS criteria for signalized and unsignalized intersections are shown in Table 1 and Table 2, respectively.

In addition to assessing the Project's effect on intersection operations, the Project's effect on 95th percentile queue lengths were evaluated based on the HCM 6th Edition methodology for the analysis intersections.

Existing Intersection Levels of Service

Intersection turning movement volumes, lane configurations, and traffic control were used to calculate the levels of service at the study intersections for the midweek PM and Saturday midday peak hours. Table 3 shows a list of study intersections and the LOS results for existing conditions. As shown, all intersections operate at an existing LOS C or better.

Table 1: HCM 6 LOS Criteria for Signalized Intersections

Level of Service (LOS)	Average Delay (seconds/vehicle)	Description
A	≤ 10	Very Low Delay: This level of service occurs when progression is extremely favorable, and most vehicles arrive during a green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
B	> 10 and ≤ 20	Minimal Delays: This level of service generally occurs with good progression, short cycle lengths, or both. More vehicles stop than at LOS A, causing higher levels of average delay.
C	> 20 and ≤ 35	Acceptable Delay: Delay increases due to fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level of service. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.
D	> 35 and ≤ 55	Approaching Unstable Operation/Significant Delays: The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume / capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	> 55 and ≤ 80	Unstable Operation/Substantial Delays: These high delay values generally indicate poor progression, long cycle lengths, and high volume / capacity ratios. Individual cycle failures are frequent occurrences.
F	> 80	Excessive Delays: This level, considered unacceptable to most drivers, often occurs with oversaturation (that is, when arrival traffic volumes exceed the capacity of the intersection). It may also occur at high volume / capacity ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.
Source: *Highway Capacity Manual 6th Edition* (HCM 6)		

Table 2: HCM 6 LOS Criteria for Unsignalized Intersections

Level of Service (LOS)	Average Delay (seconds/vehicle)	Description
A	≤ 10	Very Low Delay
B	> 10 and ≤ 15	Minimal Delays
C	> 15 and ≤ 25	Acceptable Delay
D	> 25 and ≤ 35	Approaching Unstable Operation and/or Significant Delays
E	> 35 and ≤ 50	Unstable Operation and/or Substantial Delays
F	> 50	Excessive Delays
Source: *Highway Capacity Manual 6th Edition* (HCM 6)		

Table 3: Intersection Level of Service – Existing Conditions

#	Intersection	Existing Midweek PM			Existing Saturday Midday		
		V/C	Delay	LOS	V/C	Delay	LOS
1	Regional Park Driveway & S. Peach Avenue	N/A			N/A		
2	Soccer Complex Driveway & S. Peach Avenue	N/A			N/A		
3	E. Geary Street & S. Peach Avenue	0.06	11.6	B	0.08	10.9	B
4	E. Church Avenue & S. Peach Avenue	0.52	20.9	C	0.43	18.8	B
5	E. Jensen Avenue & S. Peach Avenue	0.38	12.7	B	0.30	11.8	B

Source: Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
V/C = Volume/capacity ratio
Delay = Average vehicle delay per vehicle in seconds
LOS = Level of service
N/A = Intersection does not exist without the project

REGULATORY SETTING

This section summarizes applicable federal, state, regional, and local plans, laws, and regulations that are relevant to this analysis. This information provides a context for the discussion related to the Project's consistency with applicable policies, plans, laws, and regulations.

FEDERAL

No federal plans, policies, regulations, or laws pertaining to transportation have been determined to be applicable to this Project.

STATE

Senate Bill 743 (SB 743) was signed into law in September 2013. Senate Bill 743 (Steinberg, 2013) required changes to the California Environmental Quality Act (CEQA) Guidelines regarding the analysis of transportation impacts. Historically, CEQA transportation analyses of individual projects determined impacts on the circulation system in terms of roadway delay and/or capacity at specific locations. SB 743 changes include the elimination of auto delay, level of service (LOS), and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts. Those changes identify vehicle miles traveled (VMT) as the most appropriate metric to evaluate a project's transportation impacts. Since the bill has gone into effect, automobile delay, as measured by "level of service" and other similar metrics, no longer constitutes a significant environmental effect under CEQA. Auto-mobility (often expressed as "level of service") may continue to be a measure for planning purposes.[3]

In December 2018, the California Governor's Office of Planning and Research (OPR) and the State Natural Resources Agency submitted updated CEQA Guidelines to the Office of Administrative Law for final approval to implement SB 743. The Office of Administrative Law approved the updated CEQA Guidelines, thus implementing SB 743 and making VMT the primary metric used to analyze transportation impacts. The final text, final statement of reasons, and related materials are posted at http://resources.ca.gov/ceqa. The changes have been approved by the Office of the Administrative Law and are now in effect. For land use and transportation projects, SB 743-compliant CEQA analysis became mandatory on July 1, 2020.

[3] Governor's Office of Planning and Research, 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA

REGIONAL

Fresno Council of Governments

The Fresno Council of Governments (Fresno COG) is a voluntary association of local governments and a regional planning agency comprised of 16 member jurisdictions, including the City of Fresno. The members are represented by a Policy Board consisting of mayors of each incorporated city, and the Chairman of the County Board of Supervisors, or their designated elected official. The Fresno COG's purpose is to establish a consensus on the needs of the Fresno County area and further action plans for issues related to the Fresno County region.

The current regional transportation plan, known as the Fresno County Regional Transportation Plan (RTP) (2042), was adopted in 2018. The RTP addresses GHG emissions reductions and other air emissions related to transportation, with the goal of preparing for future growth in a sustainable way. The plan specifies how funding will be sourced and financed for the region's planned transportation investments, ongoing operations, and maintenance. The goals, objectives, and policies of the RTP are established to direct the courses of action that will provide efficient, integrated multimodal transportation systems to serve the mobility needs of people, including accessible pedestrian and bicycle facilities, and freight, while fostering economic prosperity and development, and minimizing mobile sources of air pollution. These goals, objectives, and policies are organized into six categories:

- General Transportation;
- Highway, Streets, and Roads;
- Mass Transportation;
- Aviation;
- Active Transportation; and
- Rail

Fresno County Congestion Management Plan

In June 1990, California voters approved legislation that required Congestion Management Plans (CMP) be developed in urbanized counties to address congestion on California's highways and roads. The Fresno County Congestion Management Process (CMP) implements this requirement, and its responsibilities include providing information on transportation system performance and assess alternative strategies for alleviating congestion and improving mobility for people and goods to levels that meet State and local needs. The Fresno County CMP identifies four general objectives:

1. Optimize the transportation facilities through efficient system management;
2. Invest in strategies that reduce travel demand, improve system performance, increase safety, and provide effective incident management;
3. Reduce VMT by encouraging alternative modes of transportation and promotion of sustainable land use development; and

4. Improve public transit, extend bicycle and pedestrian systems, and promote car-sharing and bike-sharing programs to facilitate the development of an integrated multimodal transportation system in the Fresno region

LOCAL

City of Fresno 2035 General Plan

The City of Fresno adopted the Fresno 2035 General Plan[4] in December 2014 as an update to the previous Fresno General Plan approved in 2002. It serves as the City's guide for the continued development, enhancement, and revitalization of the Fresno metropolitan area. The following policies related to transportation and circulation are applicable to the Project:

- **Policy MT-1-d** - Integrate Land Use and Transportation Planning. Plan for and maintain a coordinated and well-integrated land use pattern, local circulation network and transportation system that accommodates planned growth, reduces impacts on adjacent land uses, and preserves the integrity of established neighborhoods.
- **Policy MT-1-f** - Match Travel Demand with Transportation Facilities. Designate the types and intensities of land uses at locations such that related travel demands can be accommodated by a variety of viable transportation modes and support Complete Neighborhoods while avoiding the rerouting of excessive or incompatible traffic through local residential streets.
- **Policy MT-1-g** - Complete Streets Concept Implementation. Provide transportation facilities based upon a Complete Streets concept that facilitates the balanced use of all viable travel modes (pedestrians, bicyclists, motor vehicle and transit users), meeting the transportation needs of all ages, income groups, and abilities and providing mobility for a variety of trip purposes, while also supporting other City goals.
- **Policy MT-1-m** - Standards for Planned Bus Rapid Transit Corridors and Activity Centers. Independent of the Traffic Impact Zones identified in MT-2-I and Figure MT-4, strive to maintain the following vehicle LOS standards on major roadway segments and intersections along Bus Rapid Transit Corridors and in Activity Centers:
    - LOS E or better at all times, including peak travel times, unless the City Traffic Engineer determines that mitigation to maintain this LOS would be infeasible and/or conflict with the achievement of other General Plan policies.
    - Accept LOS F conditions in Activity Centers and Bus Rapid Transit Corridors only if provisions are made to improve the overall system and/or promote non-vehicular transportation and transit as part of a development project or a City-initiated project. In accepting LOS F conditions, the City Traffic Engineer may request limited analyses

[4] City of Fresno General Plan 2035, December 18, 2014.

of operational issues at locations near Activity Centers and along Bus Rapid Transit Corridors, such as queuing or left-turn movements.

- Give priority to maintaining pedestrian service first, followed by transit service and then by vehicle LOS, where conflicts between objectives for service capacity between different transportation modes occur.
- Identify pedestrian-priority and transit-priority streets where these modes would have priority in order to apply a multi-modal priority system, as part of the General Plan implementation

- **Policy MT-2-b** - Reduce Vehicle Miles Traveled and Trips. Partner with major employers and other responsible agencies, such the San Joaquin Valley Air Pollution Control District and the Fresno Council of Governments, to implement trip reduction strategies, such as eTRIP, to reduce total vehicle miles traveled and the total number of daily and peak hour vehicle trips, thereby making better use of the existing transportation system.
- **Policy MT-2-c** - Reduce VMT through Infill Development. Provide incentives for infill development that would provide jobs and services closer to housing and multi-modal transportations corridors in order to reduce citywide vehicle miles travelled (VMT).
- **Policy MT-2-d** - Street Redesign where Excess Capacity Exists. Evaluate opportunities to reduce right of way and/or redesign streets to support non-automobile travel modes along streets with excess roadway capacity where adjacent land use is not expected to change over the planning period
- **Policy MT-2-e** - Driveway and Access Consolidation. Take advantage of opportunities to consolidate driveways, access points, and curb cuts along designated major roadways when a change in development or a change in intensity occurs or when traffic operation or safety warrants
- **Policy MT-2-f** - Optimization of Roadway Operations. Optimize roadway operations by continuing to expand the use of techniques such as the City's intelligent transportation system (ITS) to manage traffic signal timing coordination in order to improve traffic operations and increase traffic-carrying capacity, while reducing unnecessary congestion and decreasing air pollution emissions. In order to facilitate roadway optimization and as a potential revenue source for the optimization, the following strategies need to be implemented:
  - Dig Once Policy. Install conduit for telecommunications use when trenching or construction occurs.
  - Telecommunications Strategy. Develop a costing mechanism for allowing the use of excess conduit within the City for use by communication carriers. The Policy shall follow regulations of the California Public Utilities Commission.
  - Grant Funding. Pursue grant funding to assist in construction and/or implementation of fiber-optic or other telecommunication infrastructure for additional public services such as education, economic development, reaching underserved populations, and public safety communications.
- **Policy MT-2-g** - Transportation Demand Management and Transportation System Management. Pursue implementation of Transportation Demand Management and

Transportation System Management strategies to reduce peak hour vehicle traffic and supplement the capacity of the transportation system.

- **Policy MT-2-i** - Transportation Impact Studies. Require a Transportation Impact Study (currently named Traffic Impact Study) to assess the impacts of new development projects on existing and planned streets for projects meeting one or more of the following criteria, unless it is determined by the City Traffic Engineer that the project site and surrounding area already has appropriate multi-modal infrastructure improvements.
    - When a project includes a General Plan amendment that changes the General Plan Land Use Designation.
    - When the project will substantially change the off-site transportation system (auto, transit, bike or pedestrian) or connection to the system, as determined by the City Traffic Engineer.
    - Transportation impact criteria are tiered based on a project's location within the City's Sphere of Influence. This is to assist with areas being incentivized for development. The Project and its study locations are located in Zones II and III. A description of the four zones, as defined on Figure MT-4, are listed below. The following criteria apply:
        - Traffic Impact Zone I (TIZ-I): TIZ-I represents the Downtown Planning Area. Maintain a peak hour LOS standard of F or better for all intersections and roadway segments. A TIS will be required for all development projected to generate 200 or more peak hour new vehicle trips.
        - Traffic Impact Zone II (TIZ-II): TIZ-II generally represents areas of the City currently built up and wanting to encourage infill development. Maintain a peak hour LOS standard of E or better for all intersections and roadway segments. A TIS will be required for all development projected to generate 200 or more peak hour new vehicle trips.
        - Traffic Impact Zone III (TIZ-III): TIZ-III generally represents areas near or outside the City Limits but within the SOI as of December 31, 2012. Maintain a peak hour LOS standard of D or better for all intersections and roadway segments. A TIS will be required for all development projected to generate 100 or more peak hour new vehicle trips.
        - Traffic Impact Zone IV (TIZ-IV): TIZ-IV represents the southern employment areas within and planned by the City. Maintain a peak hour LOS standard of E or better for all intersections and roadway segments. A TIZ will be required for all development projected to generate 200 or more peak hour new vehicle trips.
- **Policy MT-2-l** - Region-Wide Transportation Impact Fees. Continue to support the implementation of metropolitan-wide and region-wide transportation impact fees sufficient to cover the proportional share of a development's impacts and need for a comprehensive multi-modal transportation system that is not funded by other sources. Work with the Council of Fresno County Governments, transportation agencies (e.g., Caltrans, Federal Transportation Agency) and other jurisdictions in the region to develop a method for determining:

  - Regional transportation impacts of new development;
  - Regional highways, streets, rail, trails, public transportation, and goods movement system components, consistent with the General Plan, necessary to mitigate those impacts and serve projected demands;
  - Projected full lifetime costs of the regional transportation system components, including construction, operation, and maintenance; and
  - Costs covered by established funding sources.
- **Policy MT-4-b** - Bikeway Improvements. Establish and implement property development standards to assure that projects adjacent to designated bikeways provide adequate right-of-way and that necessary improvements are constructed to implement the planned bikeway system shown on Figure MT-2 to provide for bikeways, to the extent feasible, when existing roadways are reconstructed; and alternative bikeway alignments or routes where inadequate right-of-way is available.
- **Policy MT-4-d** - Prioritization of Bikeway Improvements. Prioritize bikeway components that link existing separated sections of the system, or that are likely to serve the highest concentration of existing or potential cyclists, particularly in those neighborhoods with low vehicle ownership rates, or that are likely to serve destination areas with the highest demand such as schools, shopping areas, recreational and park areas, and employment centers
- **Policy MT-5-a** - Sidewalk Development. Pursue funding and implement standards for development of sidewalks on public streets, with priority given to meeting the needs of persons with physical and vision limitations; providing safe routes to school; completing pedestrian improvements in established neighborhoods with lower vehicle ownership rates; or providing pedestrian access to public transportation routes
- **Policy MT-5-b** - Sidewalk Requirements. Assure adequate access for pedestrians and people with disabilities in new residential developments per adopted City policies, consistent with the California Building Code and the Americans with Disabilities Act.
- **Policy MT-5-d** - Pedestrian Safety. Minimize vehicular and pedestrian conflicts on both major and non-roadways through implementation of traffic access design and control standards addressing street intersections, median island openings and access driveways to facilitate accessibility while reducing congestion and increasing safety. Increase safety and accessibility for pedestrians with vision disabilities through the installation of Accessible Pedestrian Signals at signalized intersections
- **Policy MT-5-e** - Traffic Management in Established Neighborhoods. Establish acceptable design and improvement standards and provide traffic planning assistance to established neighborhoods to identify practical traffic management and calming methods to enhance the pedestrian environment with costs equitably assigned to properties receiving the benefits or generating excessive vehicle traffic
- **Policy MT-6-g** - Path and Trail Development. Require all projects to incorporate planned multi-purpose path and trail development standards and corridor linkages consistent with the General Plan, applicable law and case-by-case determinations as a condition of project approval.

- **Policy MT-8-a** - Street Design Coordinated with Transit. Coordinate the planning, design, and construction of the major roadway network with transit operators to facilitate efficient direct transit routing throughout the Planning Area.
- **Policy MT-8-c** - New Development Facilitating Transit. Continue to review development proposals in transportation corridors to ensure they are designed to facilitate transit. Coordinate all projects that have residential or employment densities suitable for transit services, so they are located along existing or planned transit corridors or that otherwise have the potential for transit orientation to FAX, and consider FAX's comments in decision-making
- **Policy MT-11-c** - Truck Route Designations. Continue to plan and designate truck routes within the Metropolitan Area to facilitate access to and from goods production and processing areas while minimizing conflicts with other transportation priorities

The General Plan also has policies related to maintaining acceptable Levels of Service (LOS). However, LOS can no longer be used for CEQA evaluations and is reported for informational purposes only.

City of Fresno Active Transportation Plan

The City of Fresno Active Transportation Plan (ATP)[5] is a comprehensive guide that creates a vision for active transportation in the City of Fresno. It is an update to the City of Fresno Bicycle, Pedestrian, & Trails, Master Plan that was adopted in 2010. This plan lays out specific goals to improve bicycle access and connectivity in Fresno. These goals include the following:

- Equitably improve the safety and perceived safety of walking and bicycling in Fresno;
- Increase walking and bicycling trips in Fresno by creating user friendly facilities;
- Improve the geographical equity of access to walking and bicycling facilities in Fresno; and
- Fill key gaps in Fresno's walking and bicycling networks.

City of Fresno VMT Guidelines

The City of Fresno released their draft VMT guidelines on June 18, 2020[6]. This document serves as a detailed guideline for preparing VMT analysis consistent with SB 743 requirements for development projects, transportation projects, and plans. Key elements of these guidelines include:

- The County of Fresno was selected as the region for assessing VMT impacts. Therefore, all projects will compare their VMT metrics against the county averages.
- The draft guidelines recommend the following significant thresholds for land development projects in the City of Fresno:

[5] City of Fresno Active Transportation Plan, December 2016.

[6] https://www.fresno.gov/darm/wp-content/uploads/sites/10/2020/06/CEQA-Guidelines-for-Vehicle-Miles-Traveled-Thresholds-June-18-2020-DRAFT.pdf

- 13 percent below existing regional average VMT per capita for residential projects
- 13 percent below existing regional average VMT per employee for office projects
- No net increase in VMT for retail projects.

City of Fresno Traffic Impact Study Report Guidelines

The City of Fresno's Traffic Impact Study Report Guidelines (updated February 2, 2009) establish general procedures and requirements for traffic impact studies. The Report Guidelines set forth the following criteria for determining whether a project would be required to implement an improvement at a study intersection:

- The Project triggers an intersection operating at an acceptable level of service (LOS E or better for locations in Zone II or LOS D for locations in Zone III) to operate at an unacceptable LOS.
- The Project triggers an intersection operating at an unacceptable LOS to operate at LOS F.
- The Project increases the average delay for a study intersection that is already operating at an unacceptable LOS.

TRANSPORTATION ANALYSIS

The transportation analysis assesses how the study area's transportation system would operate with the implementation of the proposed Project. This analysis includes both effects that would result in significant impacts under the California Environmental Quality Act (CEQA) guidelines and non-CEQA effects that the Project should improve to maintain an efficient transportation network.

CEQA SIGNIFICANCE CRITERIA

The Project's impact is not considered to be significant unless it would:

a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.

b. Conflict or be inconsistent with CEQA Guideline section 15064.3, subdivision (b).

c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).

d. Result in inadequate emergency access.

Significance criteria "b" is related to the implementation of vehicle miles traveled (VMT) as the primary performance metric.

NON-CEQA CRITERIA

While LOS is no longer applicable to CEQA analyses, the City of Fresno requires a transportation analysis looking at how intersection operations will be affected by the Project. If a Project triggers any of the following criteria, the Project will need to implement improvement measures to maintain an efficient transportation system:

a. Causes an intersection operating at an acceptable level of service (LOS E or better for locations in Zone II and LOS D or better for locations in Zone III) to operate at an unacceptable LOS.

b. Causes an intersection operating at an unacceptable LOS to operate at LOS F.

c. Causes an increase in the average delay for a study intersection that is already operating at an unacceptable LOS.

CIRCULATION SYSTEM PERFORMANCE

As discussed previously, LOS can no longer be used in assessing CEQA impacts. However, the City of Fresno still relies on this type of analysis for transportation planning. This section provides the findings of the LOS analyses for informational purposes only.

The performance of the identified analysis intersections was assessed for two scenarios including traffic conditions when environmental review commenced (Existing Conditions) and the future planning year 2035 (Cumulative Conditions). At locations where the Project would cause a transportation deficiency, potential improvements have been proposed.

Trip Generation

Trip generation is used to estimate the expected number of trips that will be generated by a project. To develop trip generation for the Project, Kittelson used the nationally recognized Institute of Transportation Engineers (ITE) Trip Generation Manual 10th Edition to develop the trip generation estimates. The land use codes that are the most similar to the proposed park include:

- **Soccer Complex (ITE 488)** – A soccer complex is an outdoor facility that is used for non-professional soccer games. It may consist of multiple fields. The size of each field within the land use may vary to accommodate games for different age groups. Ancillary amenities may include stadium seating, a fitness trail, an activities shelter, aquatic center, picnic grounds, basketball and tennis courts, and a playground
- **Public Park (ITE 411)** – Public parks are owned and operated by a municipal, county, state, or federal agency. The parks surveyed vary widely as to location, type, and number of facilities, including boating or swimming facilities, beaches, hiking trails, ball fields, soccer fields, campsites, and picnic facilities. Seasonal use of the individual sites differs widely as a result of the varying facilities and local conditions, such as weather. For example, some of the sites are used primarily for boating or swimming; others are used for softball games.

Because the park is split into two parts north and south of the railroad tracks which have separate access points, the trip generation has also been split into two. The southern parcel consists of eight soccer fields which are the primary use for this parcel. Therefore, Kittelson used the Soccer Complex trip generation to estimate the number of trips in the southern parcel.

The northern parcel is a mix of both traditional public park amenities along with courts for futsal. Additionally, there is a basketball court and a softball field that could potentially be used for some type of league play. Kittelson estimated trip generation for all park amenities in the northern parcel except the two futsal courts, the basketball court, and the softball field using the public park trip generation estimate based on a park size of 18.5 acres.

The ITE description for Public Park (ITE 411) shows ball fields and soccer fields are included in the trip generation estimates which may cover the two futsal courts, the basketball court, and the softball field. However, Kittelson does not believe these ITE estimates account for the potential to use them

for leagues and/or tournaments. To present a conservative analysis of trip generation, Kittelson analyzed these four areas in the northern parcel using the Soccer Complex trip generation data. The resulting trip generation is shown in Table 4.

Existing Conditions

Intersection analyses of Existing and Existing plus Project conditions using collected data and the estimated trip generation were performed to determine if the study intersections would fall below the thresholds listed above if the Project were built and operating under existing traffic conditions. For the two project driveways that only exist under the plus project condition, Kittelson has assumed that they will have side street stop-sign control with a single exit lane allowing left or right turns onto Peach Avenue.

Existing Intersection Operations

The weekday PM and Saturday peak hour intersection turning movement volumes and lane configurations for Existing Conditions with and without the Project were used to calculate the LOS. The volumes and lane configurations used in this analysis are provided in Appendix 3, while Appendix 4 shows only trips generated by the Project. The level of service findings are summarized in Table 5 and Table 6 for the weekday PM and Saturday peak hours, respectively. Detailed calculation worksheets are provided in Appendix 5. As shown in these tables, the Project's Soccer Complex Driveway and S. Peach Avenue (#2) would operate at LOS E. Since this intersection is located south of the Braley Canal, it is located in Traffic Impact Zone III which requires LOS to be maintained at LOS D or better.

Table 4: Estimated Trip Generation for the Project

Land Use	ITE Code	Independent Variable	Value	Weekday	Saturday	Weekday AM Peak Hour			Weekday PM Peak Hour			Saturday Peak Hour		
						In	Out	Total	In	Out	Total	In	Out	Total
Southern Parcel														
Soccer Complex	488	Fields	8	571	3,240	5	3	8	87	45	132	154	167	321
Northern Parcel														
Public Park	411	Acres	18.5	15	37	1	0	1	2	1	3	3	3	6
Soccer Complex	488	Fields	4	286	1,620	2	2	4	44	22	66	77	84	161
Subtotal for Northern Parcel				301	1,657	3	2	5	46	23	69	80	87	167
Total:				872	4,897	8	5	13	133	68	201	234	254	488

Table 5: Intersection Level of Service – Existing Conditions – Weekday PM Peak Hour

#	Intersection	Existing PM			Existing PM + Project		
		V/C	Delay	LOS	V/C	Delay	LOS
1	Regional Park Driveway & S. Peach Avenue	N/A			0.08	26.5	D
2	Soccer Complex Driveway & S. Peach Avenue	N/A			0.16	30.1	D
3	E. Geary Street & S. Peach Avenue	0.06	11.6	B	0.07	12.2	B
4	E. Church Avenue & S. Peach Avenue	0.52	20.9	C	0.57	22.2	C
5	E. Jensen Avenue & S. Peach Avenue	0.38	12.7	B	0.42	13.4	B

Source: Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
V/C = Volume/capacity ratio
Delay = Average vehicle delay in seconds
LOS = Level of service
N/A = Intersection does not exist without the project
Intersections shaded in grey represent where the LOS falls below the LOS recommended by the City of Fresno.

Table 6: Intersection Level of Service – Existing Conditions – Saturday Peak Hour

#	Intersection	Existing Saturday			Existing Saturday + Project		
		V/C	Delay	LOS	V/C	Delay	LOS
1	Regional Park Driveway & S. Peach Avenue	N/A			0.25	29.8	D
2	Soccer Complex Driveway & S. Peach Avenue	N/A			0.52	49.4	E
3	E. Geary Street & S. Peach Avenue	0.08	10.9	B	0.10	12.1	B
4	E. Church Avenue & S. Peach Avenue	0.43	18.8	B	0.53	21.2	C
5	E. Jensen Avenue & S. Peach Avenue	0.30	11.8	B	0.38	13.2	B

Source: Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
V/C = Volume/capacity ratio
Delay = Average vehicle delay in seconds
LOS = Level of service
N/A = Intersection does not exist without the project
Intersections shaded in grey represent where the LOS falls below the LOS recommended by the City of Fresno.

Proposed Improvements

As shown in Table 6, the project driveway for the Soccer Complex and S. Peach Avenue is anticipated to operate at LOS E. This driveway was assumed to operate as a side-street stop-controlled intersection with exiting traffic from the Project being required to stop before turning onto S. Peach Avenue. South Peach Avenue traffic would not be controlled and would be free flowing. Therefore, the delay reported in Table 6 would be the delay only for vehicles exiting the project.

The primary method of improving operations at a stop-controlled intersection is to signalize the driveway. However, signalization requires an intersection to meet criteria laid out in the California Manual of Uniform Traffic Control Devices (MUTCD). Kittelson performed a signal warrant analysis at the intersection of S. Peach Avenue and the Soccer Complex Driveway and found it would not meet the signal warrant (See Appendix 6).

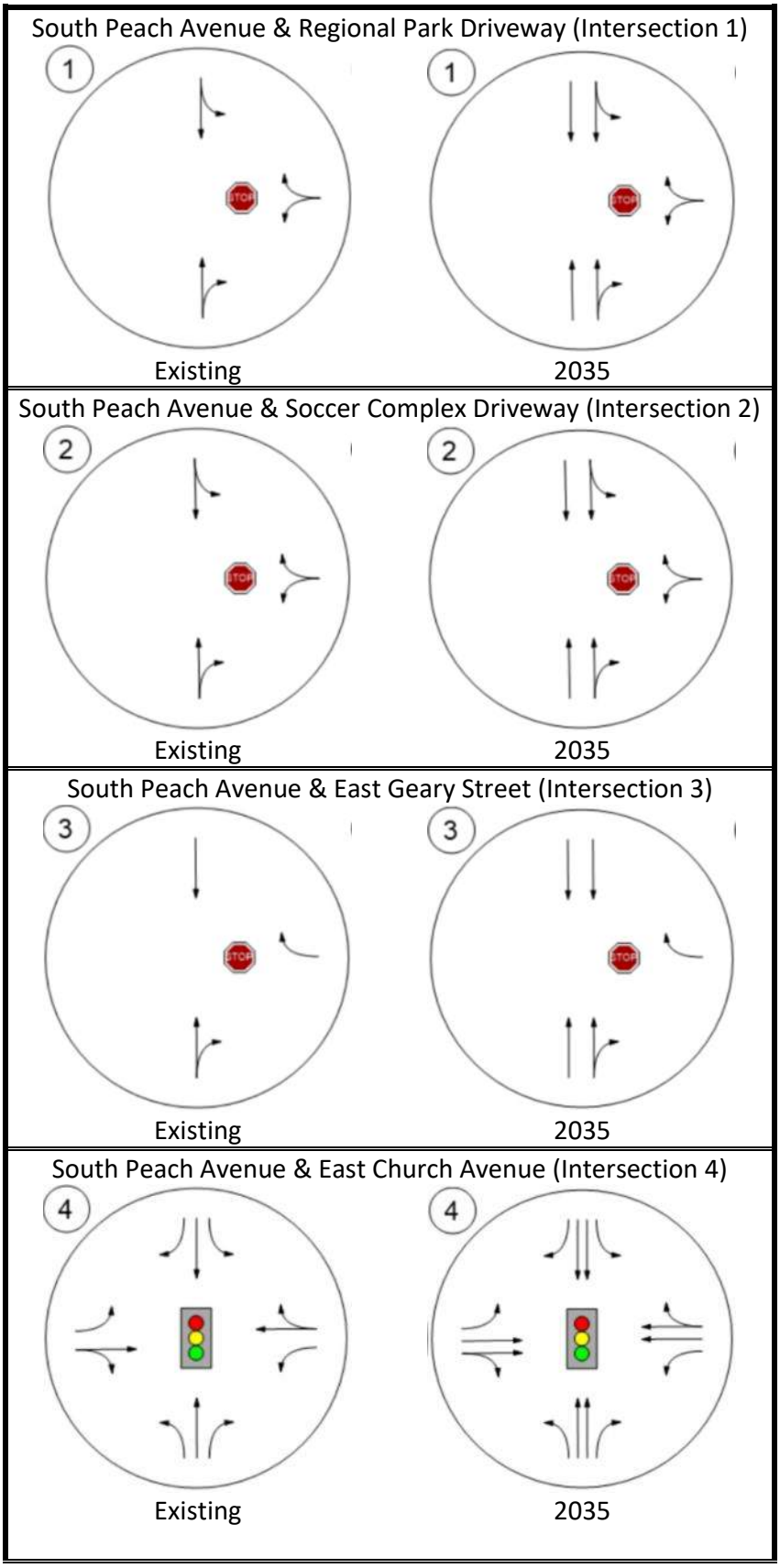
While the intersection would not meet a warrant under Existing plus Project conditions, there are proposed plans to widen Peach Avenue from two lanes to four lanes with a divided median. Therefore, Kittelson recommends the project entrance to the soccer complex be signalized once the roadway widening project is implemented. This will improve operations for the driveway, especially on weekends when most tournaments would occur, and improve safety by better controlling vehicle movements and providing a controlled crossing for pedestrians.

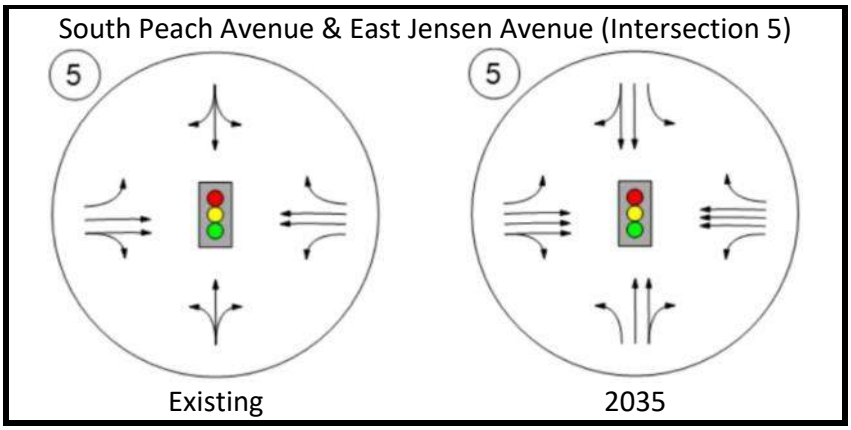
Cumulative Conditions (2035)

The Cumulative Conditions analysis forecasts how the study area's transportation system would operate with the Project in combination with the growth and changes of the surrounding community by the year 2035. The traffic growth based on changes of the surrounding community by 2035 were derived from the latest version of the Fresno COG travel demand model which was used for the recent Fresno General Plan Update EIR. Estimated growth in segment volumes along the roadways in the study area, as forecasted by the travel model, were applied to the existing traffic counts to develop cumulative 2035 volumes on streets and at intersections.

The travel demand model also shows S. Peach Avenue, Church Avenue, and Jensen Avenue will all be widened by 2035. Kittelson modified the lane configurations for the study intersections to provide the number of through lanes that align with the number of lanes from the travel demand model. Figure 5 shows a comparison between existing condition lane configurations and the assumed lane configurations under 2035 conditions.

Figure 5: Existing vs. Assumed 2035 Intersection Lane Configuration





This remainder of this section describes the effect the Project would have on the transportation system considering the anticipated growth in traffic volumes and increased number of lanes from the travel demand model.

Cumulative Intersection Operations

The weekday PM and Saturday peak hour intersection turning movement volumes and lane configurations for cumulative conditions with and without the Project are provided in Appendix 3, while Appendix 4 shows the Project only trip distribution. This information was used to calculate the level of service and identify if the level of service would fall below the thresholds set by the City of Fresno. The level of service results are summarized in Table 7 and Table 8 for the midweek PM and Saturday midday peak hours, respectively. Detailed calculation worksheets are provided in Appendix 5.

Similar to the existing conditions, only the intersection of South Peach Avenue and the Soccer Complex Driveway (#2) is anticipated to operate below the threshold (LOS D) for Traffic Impact Zone III. The Regional Park Driveway and South Peach Avenue intersection would operate at LOS E, but this is an acceptable LOS since this intersection is located in Traffic Impact Zone II.

Table 7: Intersection Level of Service – Cumulative Conditions – Weekday AM Peak Hour

#	Intersection	2035 PM			2035 PM + Project		
		V/C	Delay	LOS	V/C	Delay	LOS
1	Regional Park Driveway & S. Peach Avenue	N/A			0.10	34.3	D
2	Soccer Complex Driveway & S. Peach Avenue	N/A			0.22	41.2	E
3	E. Geary Street & S. Peach Avenue	0.06	11.0	B	0.06	11.4	B
4	E. Church Avenue & S. Peach Avenue	0.53	20.1	C	0.56	20.8	C
5	E. Jensen Avenue & S. Peach Avenue	0.49	18.7	B	0.49	19.1	B

Source: Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
V/C = Volume/capacity ratio
Delay = Average vehicle delay in seconds
LOS = Level of service
N/A = Intersection does not exist without the project
Intersections shaded in grey represent where the LOS falls below the LOS recommended by the City of Fresno.

Table 8: Intersection Level of Service – Cumulative Conditions – Weekday PM Peak Hour

#	Intersection	2035 Saturday			2035 Saturday + Project		
		V/C	Delay	LOS	V/C	Delay	LOS
1	Regional Park Driveway & S. Peach Avenue	N/A			0.36	43.9	E
2	Soccer Complex Driveway & S. Peach Avenue	N/A			0.78	108.8	F
3	E. Geary Street & S. Peach Avenue	0.07	10.8	B	0.09	11.4	B
4	E. Church Avenue & S. Peach Avenue	0.49	19.6	B	0.58	21.2	C
5	E. Jensen Avenue & S. Peach Avenue	0.41	16.5	B	0.41	17.6	B

Source: Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
V/C = Volume/capacity ratio
Delay = Average vehicle delay in seconds
LOS = Level of service
N/A = Intersection does not exist without the project
Intersections shaded in grey represent where the LOS falls below the LOS recommended by the City of Fresno.

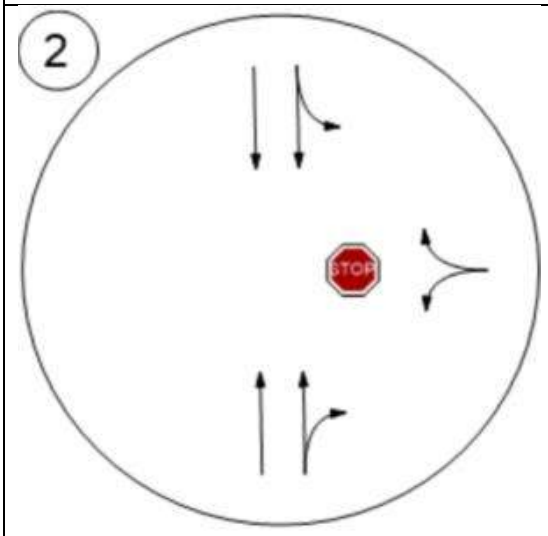
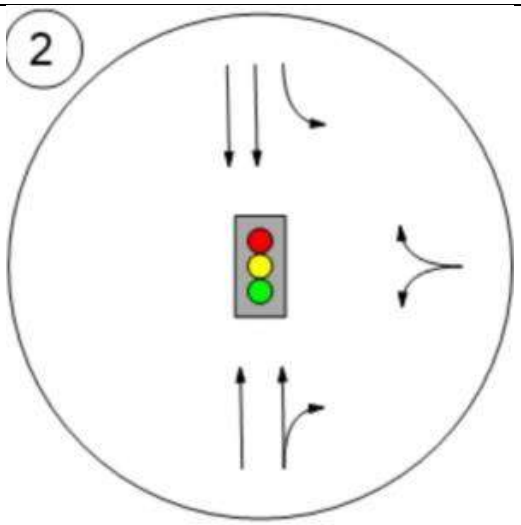
Proposed Improvements

The Project would not cause an existing intersection to fall below the LOS standard for the City of Fresno, but the project driveway for the Soccer Complex and S. Peach Avenue would operate at LOS E in the weekday PM peak hour and LOS F in the Saturday peak hour. Based on a warrant analysis (Appendix 6), this intersection would meet the peak hour signal warrant for signalization. Therefore, Kittelson recommends the following improvements be implemented at the intersection of S. Peach Avenue and the Soccer Complex Driveway (#2):

- Provide a dedicated southbound left turn lane from S. Peach Avenue into the Soccer Complex Driveway.
- Signalize the intersection.

Implementing this recommendation would improve the operations of the intersection to LOS A in both the weekday PM peak hour and Saturday peak hour as shown in the detailed output sheet located in Appendix 7. Figure 6 shows a comparison between the lane configuration and traffic control analyzed for 2035 and the recommended changes to improve operations.

Figure 6: Lane Configuration Comparison at S. Peach Avenue & the Soccer Complex Driveway (#2)

2035 Cumulative	2035 Cumulative with Recommended Changes
	

Queue Lengths

An analysis of 95th percentile queue lengths was performed for existing and cumulative (2035) conditions without and with the Project. Queue lengths are based on the HCM 6th Edition methodologies for the study intersections and are shown in Table 9 and Table 10 for the Existing and Cumulative 2035 conditions, respectively. The queue storage for the approaches exiting the project at the Regional Park Driveway and S. Peach Avenue (#1) and the Soccer Complex Driveway and S. Peach Avenue (#2) will be defined during development of the site plan. However, the anticipated queue based on the assumed lane configuration is presented in the table.

The study intersections were generally found to have sufficient storage to contain the 95th percentile queue lengths with the addition of Project traffic except for the eastbound left turn at the intersection of E. Jensen Avenue & S. Peach Avenue. Under cumulative 2035 conditions, the PM peak hour 95th percentile queue for the no project conditions is estimated at 132 feet which is 16 feet longer (or about one car length) longer than the 116 feet of turn lane storage provided. The addition of project traffic would increase the 95th percentile queue by about 22 feet to 154 feet. Since the eastbound left turn queue would already exceed the available storage under the no project conditions, the additional queue of about one vehicle (22 feet) is not anticipated to appreciably affect operations and safety at the intersection under cumulative 2035 conditions. Therefore, Kittelson does not recommend any changes.

Table 9: 95th Percentile Queues for Existing Conditions with and without the Project

#	Intersection	Scenario	Northbound			Southbound			Eastbound			Westbound		
			Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
1	Regional Park Driveway & S. Peach Avenue	Storage		370			668						TBD	
		PM		0			0						0	
		PM + Proj		0			2						8	
		SAT		0			0						0	
		SAT + Proj		0			4						36	
2	Soccer Complex Driveway & S. Peach Avenue	Storage		460			500						TBD	
		PM		0			0						0	
		PM + Proj		0			4						18	
		SAT		0			0						0	
		SAT + Proj		0			7						110	
3	E. Geary Street & S. Peach Avenue	Storage		300			460						155	
		PM		0			0						5	
		PM + Proj		0			0						5	
		SAT		0			0						6	
		SAT + Proj		0			0						8	
4	E. Church Avenue & S. Peach Avenue	Storage	255	1,235	155	205	530	205	116	1,165		130	1,000	
		PM	7	168	17	71	92	36	39	91		10	127	
		PM + Proj	8	204	18	86	107	42	49	96		11	145	
		SAT	9	89	9	44	60	23	27	57		8	94	
		SAT + Proj	11	145	11	79	101	38	46	65		10	129	
5	E. Jensen Avenue & S. Peach Avenue	Storage		300			300		116	595		265	2,500	1,736
		PM		52			74		59	64		4	43	17
		PM + Proj		54			86		73	67		4	47	23
		SAT		18			53		35	31		5	30	14
		SAT + Proj		19			83		52	35		6	37	24

Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
TBD - Available queue storage not yet defined with a prepared site plan
Queue lengths reported in feet
Intersections shaded in grey represent locations where queue lengths would exceed storage.

Table 10: 95th Percentile Queues for Cumulative 2035 with and without the Project

#	Intersection	Scenario	Northbound			Southbound			Eastbound			Westbound		
			Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
1	Regional Park Driveway & S. Peach Avenue	Storage		370			668						TBD	
		PM		0			0						0	
		PM + Proj		0			3						10	
		SAT		0			0						0	
		SAT + Proj		0			4						52	
2	Soccer Complex Driveway & S. Peach Avenue	Storage		460			500						TBD	
		PM		0			0						0	
		PM + Proj		0			5						24	
		SAT		0			0						0	
		SAT + Proj		0			9						183	
3	E. Geary Street & S. Peach Avenue	Storage		300			460						155	
		PM		0			0						4	
		PM + Proj		0			0						5	
		SAT		0			0						6	
		SAT + Proj		0			0						7	
4	E. Church Avenue & S. Peach Avenue	Storage	255	1,235	155	205	530	205	116	1,165		130	1,000	
		PM	8	126	29	145	78	45	71	82		13	67	
		PM + Proj	8	144	29	159	83	49	82	87		14	75	
		SAT	12	90	22	136	59	34	60	64		11	57	
		SAT + Proj	14	119	24	177	76	47	84	72		12	88	
5	E. Jensen Avenue & S. Peach Avenue	Storage	150	300		150	300		116	595		265	2,500	1,736
		PM	109	134		63	93		132	223		34	130	25
		PM + Proj	110	134		72	97		154	213		34	136	32
		SAT	61	90		41	66		86	153		39	97	16
		SAT + Proj	64	91		61	82		112	162		41	109	30

Kittelson & Associates, Inc. 2021
Intersections analyzed using HCM 6 methodologies.
TBD - Available queue storage not yet defined with a prepared site plan
Queue lengths reported in feet
Intersections shaded in grey represent locations where queue lengths would exceed storage.

VEHICLE MILES TRAVELED (VMT)

Methodology

An analysis of vehicle miles traveled (VMT) was performed to examine how the Project would affect average trip length and VMT for the region. For this analysis, the Project is assumed to be most similar to a retail project as opposed to a residential or employment project. Therefore, the analysis follows the City of Fresno's recommended significance threshold of "no net increase in VMT".

This analysis assumes that no net new recreational trips will be created as a result of the Project – the trips to the new regional park are assumed to be existing recreational trips that would be rerouted from other existing parks, but better served by the new park location. This is a reasonable assumption because:

- A large number of parks currently exist in the Fresno region and in the Project's vicinity, including parks with soccer and football fields, that attract visitors from a similar geographic range.
- The park does not include any novel or unique characteristics that would create new trips.

Since the Project includes both a regional park and a separate soccer complex, VMT was analyzed for two separate trip types – vehicles traveling to the nearest regional park and vehicles traveling to the nearest park with soccer facilities. The redistribution of recreational trips was analyzed by calculating changes in average trip length to (1) the nearest regional park and (2) the nearest park with a soccer field.

Three other regional parks exist in Fresno – the first part of the analysis quantifies how the average trip length to the nearest *regional park* may change with the addition of the Project. The second part of the analysis quantifies how average trip length to the nearest park *with a soccer or football field* may change. According to the Fresno Parks database, 34 existing parks include soccer or football fields.

Average trip length refers to the average distance from the centroid of each travel model transportation analysis zone (TAZ) within Fresno to the nearest regional park or park with a soccer or football field (along the existing street network). The analysis does not account for population density or dispersion.

The average trip lengths with and without the new regional park were compared for both the regional park aspect and the soccer complex. An increase in average trip length would increase overall VMT and result in a significant impact; a decrease in average trip length would decrease overall VMT and not cause a CEQA impact related to VMT.

VMT Analysis Results

The addition of a new regional park/soccer complex at the Project site would result in a decrease in VMT for both the regional park and the soccer complex. Table 11 shows how the average trip length for a regional park trip or a soccer field trip would change with the Project. Since the Project is assumed not to generate net new trips, but instead would redistribute existing trips, a decrease in the average trip length would also result in a decrease in VMT.

The reduction in VMT resulting from trips to the nearest park with a football or soccer field is much smaller than that for regional parks. Because there is a much higher number of existing parks with football or soccer fields (34), the addition of the new park would have a smaller effect on trip re-routing and distance.

Table 11: Changes to VMT

Park Category / Scenario	Average Trip Distance (Miles)
Regional Parks	
Existing	5.00
Existing + New Park	3.90
Difference	**-1.11**
Parks with Soccer or Football Fields	
Existing	1.54
Existing + New Park	1.53
Difference	**-0.01**

GEOMETRIC DESIGN AND INCOMPATIBLE USE

The 2014 Fresno General Plan designates the Project site as Community Park (CP) zoning. This land use is described as a park of up to 40 acres that typically includes sports fields, gyms, tennis courts, meeting rooms, etc. This land use is consistent with the project description of the Project. Therefore, the Project is not an incompatible use with the surrounding neighborhood.

The Project does not propose any changes to the surrounding transportation network. Vehicles will access the site via two driveways – one north of the railroad tracks and another south of the railroad tracks. These access points will be reviewed during conditions of approval to ensure they meet City design standards. Since the access points will meet the City's current design standards in order for the project to meet its conditions of approval and there are no proposed off-site improvements, no potential hazards due to geometric design are anticipated.

EMERGENCY ACCESS

It is anticipated that emergency vehicles would be able to access the Project site using both access points on Peach Avenue if the Project were implemented. Intersection operations would not be significantly impacted by the Project at the signalized study locations and will not prevent emergency vehicles from accessing the site. The LOS at the unsignalized driveways is not considered critical to emergency access since it only affects outbound vehicle traffic and emergency responders can drive around queues with their emergency lights.

Final site plans will be reviewed by local fire officials as part of the design review to ensure adequate emergency access to and within the site.

TRANSIT IMPACTS

The Project site is not directly served by transit. Based on a qualitative assessment of transit service in the area and a review of the operations impacts, the Project is not anticipated to decrease the performance of transit buses or safety of transit facilities.

Since the Project serves a regional population and the nearest transit stop is almost one mile away, the majority of trips are expected to be made by motor vehicle. Therefore, the Project is not anticipated to significantly affect transit capacity in the area. Additionally, because the Project only has a minimal impact on intersection delay at the study intersections, the Project is not anticipated to cause significant changes in the ability of buses to meet their posted schedules and on-time performance.

BICYCLE IMPACTS

A qualitative assessment was conducted to determine the Project's potential impacts on bicyclists and bicycle facilities. Class II bike lanes are currently present intermittently along Peach Avenue, with

the exception of the corridor immediately adjacent to the Project. The City of Fresno's Active Transportation Plan includes a planned Class II bikeway along Peach Avenue from North Avenue to Kings Canyon Road. The Project is not expected to impact the City's plan to install bicycle facilities along this corridor because the Project is not proposing off-site improvements.

The Project site is required to provide adequate access and amenities for bicyclists, including bicycle parking. The Fresno municipal code (Section 15-2429) states the required number of short and long-term bicycle parking spaces for various land uses. Parks and Open Space classifications are not required to provide long-term spaces (for visitors staying longer than two hours) but are required to provide short-term spaces to be determined during project review. As of this transportation analysis, the site plan is not sufficiently developed to determine recommendations for bicycle amenities and parking. These will be determined by the City of Fresno during the final review of the site plan and development of the conditions of approval.

PEDESTRIAN IMPACTS

A qualitative assessment was conducted to determine the Project's potential impacts on pedestrians and pedestrian facilities. Sidewalks are not currently present along Peach Avenue adjacent to the Project, but the City of Fresno's Active Transportation Plan includes planned sidewalks to fill in all gaps on Peach Avenue within the area. In addition, the City of Fresno Department of Public Works has plans to widen Peach Avenue between Florence Avenue and Butler Avenue, which will include sidewalks along the Project frontage and a pedestrian crossing of the railroad tracks. The Project is not proposing off-site improvements that would conflict with these proposed plans. Therefore, the Project would not significantly impact pedestrians.

SITE CIRCULATION REVIEW

A fully developed site plan was not available for a thorough review by Kittelson. Based on a review of concepts provided to Kittelson, the following are high level recommendations to consider as the site plan is fully designed:

- S. Peach Avenue is proposed to be widened in the Project vicinity which would fill in the sidewalk gap along the Project frontage providing a safe pedestrian route between the regional park and the soccer complex. However, if the Peach Avenue project is delayed and the park Project is developed first, it is recommended the Project implement the sidewalk improvements along the Project frontage to provide a safe route for pedestrians between the two parts of the park.
- The regional park on the northern parcel and the soccer complex on the southern parcel are divided by an active railroad line. In order to prevent pedestrians from traversing the railroad tracks away from the marked crossing on S. Peach Avenue, Kittelson recommends a high fence be established to prevent pedestrians from crossing between the two parts of the Project except at the crossing on S. Peach Avenue.

CEQA PROJECT IMPACTS AND PROPOSED MITIGATIONS

TRAF-1	**The proposed project would not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. This would be considered a less than significant impact.**

The Project would not cause a significant impact by conflicting with programs, plans, ordinances, or policies addressing the circulation system.

- Proposed roadway, bicycle, and pedestrian plans will not be impacted by the new development, and adequate right-of-way will be provided to complete potential roadway widening and new bicycle and pedestrian facilities.
- Transit service is not expected to be impacted since the Project would not cause transit demand to exceed capacity and traffic operations at study intersections used by transit vehicles would not be significantly impacted.
- The Project complies with policies outlined in the General Plan and Active Transportation Plan, including:
    - Reducing VMT through infill development (General Plan Policy MT-2-c)
    - Ensuring pedestrian safety (General Plan Policy MT-5-d; ATP Goal 1)

Increase walking and bicycling trips in Fresno by creating user friendly facilities (ATP Goal 2)

TRAF-2	**The proposed project would not conflict with or be inconsistent with CEQA Guideline section 15064.3, subdivision (b). This would be considered a less than significant impact.**

Based on the City of Fresno's VMT guidelines, the Project would be assumed to have a significant impact related to VMT if it would cause a net increase in regional VMT. The total number of recreational park trips in Fresno is not anticipated to increase; instead, recreational trips would be diverted from other parks., The average trip lengths between residential areas in Fresno and regional park and soccer field destinations were computed with and without the Project. Based on this analysis, the average trip lengths were found to decrease as a result of the Project. Since average trip length would decrease and there would be no net new vehicle trips as a result of the Project, there would be no significant impact as the total regional VMT would decrease as a result of the Project.

TRAF-3	**The proposed project would substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). This would be considered a potentially significant impact.**

The Project does not propose modifications to an existing land use or zoning designation, and therefore does not represent an incompatible use. The Project does not propose any off-site

improvements to the local transportation network that would result in sharp curves, dangerous intersections, or other hazards.

The design of the proposed internal drive aisles, access driveways, and other circulation improvements would be required to adhere to the City of Fresno Fire Department's design standards which are imposed on project developments by the State and City's Fire Department during the building plan check and development review process.

Since the Project is not incompatible with surrounding land uses, there are no off-site improvements, and all on-site improvements would be made adhering to the latest design standards for the City of Fresno preventing hazardous conditions, the Project would not result in a significant impact and no mitigation measures would be required.

TRAF-4	**The proposed project would result in inadequate emergency access. This would be considered a potentially significant impact.**

Emergency response requires a balance of emergency response time and evacuation needs with other community concerns, such as urban design and traffic calming. To address emergency and fire access needs, the site improvements would be required to be designed in accordance with all applicable CDE and the City of Fresno Fire Department design standards for emergency access (e.g., minimum lane width and turning radius). For example, the driveways would be designed to meet the minimum width requirements of the City of Fresno Fire Department to allow for the passing of emergency vehicles.

Since adequate emergency access will be required per the local fire code and the site plans reviewed by the local fire officials as part of the design review, the Project is not anticipated to result in inadequate emergency vehicle access. Therefore, the Project would have a less than significant impact and no mitigation measures would be required.

Appendix 1 Transportation Terminology

Several traffic analysis concepts were used to evaluate the Project's impacts on the existing and future transportation system. The following is an explanation of transportation terminology used in this report.

Level of Service (LOS)

"Levels of service" describe the operating conditions experienced by motorists during peak times of travel. Level of service (LOS) is a qualitative measure of the effect of a number of factors, including speed and travel time, traffic interruptions, freedom to maneuver, driving comfort and convenience. Levels of service are designated "A" through "F" from best to worst, which cover the entire range of traffic operations that might occur. Level of Service (LOS) "A" through "E" generally represent traffic volumes at less than intersection capacity, while LOS "F" represents over capacity and/or significant delays.

Peak Hour Factor (PHF)

A peak hour factor is a measure of fluctuation in vehicle flow. In urban and suburban areas, PHFs are generally found to be in the range of 0.70 to 1.00. PHFs closer to 1.00 reflect locations where the vehicle flow is consistent and uniform, whereas PHFs with less than 0.80 tend to be locations with more erratic vehicle flow. When a PHF is unknown, default values of 0.90 to 0.95 tend to be used. PHF is calculated by dividing the total vehicles entering and leaving an intersection in an hour by four times the highest 15-minute increment of vehicles in that same hour.

Bicycle Terminology

- Bikeways that are indicated by pavement markings and/or signage. There are generally three classes of bikeways:
    - Class I (Paths) - Trails that are exclusively for non-motorized access and are typically shared with pedestrians and/or equestrians.
    - Class II (Bike Lanes) – Marked lanes on roadways for exclusive use by bicyclists.
    - Class III (Bike Routes) – Roadways in which bicyclists and motorists share the travel lane.
- All of these bikeways may be supplemented with signage and/or bicycle symbol pavement markings. The lack of bicycle designations on city streets does not preclude bicycle usage, as they are defined as a vehicle in the California Vehicle Code and subject to the same rules governing motor vehicles

Pedestrian Terminology

Pedestrian facilities are made up of several components and may include the following:

- Walkways, such as sidewalks, paths, and roadway shoulders, which provide exclusive access to pedestrian circulation and adequate widths for walking that are free of obstructions. On high-volume and/or high-speed roadways, buffers are needed to provide greater separation from roadway traffic to create a more conducive walking environment. Buffers, which are areas between the curb and walkway, often house utilities, street furniture, and landscaping

- Intersection crossing aids, such as marked crosswalks, pedestrian bulb-outs, in-pavement flashers, raised crosswalks, median pedestrian refuges, pedestrian-actuated signalization with visual and audible pedestrian signal heads, and curb ramps with detectable warnings.
- Landscaping, such as trees, bushes, and other foliage, can provide shade from the sun and overhead protection during inclement weather, create a more pleasant walking environment, and may absorb noise and pollution from the roadway if placed in the buffer zone.
- Amenities, such as benches, water fountains, pedestrian-scaled lighting, refuse cans, mailboxes, newspaper stands, maps and directional signage.

Additionally, pedestrian activity is encouraged for routine and recreational purposes by providing and maintaining walkway facilities on both sides of all roadways, allowing pedestrians to cross all intersection legs, orienting buildings towards walkways rather than parking lots, and providing easy, continuous, direct path to and from activity centers. Pedestrian activity is discouraged by locating dead spaces (fences, blank walls, surface parking) next to walkways, designing limited access roadways (cul-de-sacs, long stretches of road with no intersections) with no pedestrian access points, high-volume or high-speed roadways with inadequate walkway widths and no buffers, and large turning radii at intersections.

Appendix 2 Traffic Count Data

Prepared by National Data & Surveying Services

S Peach Ave & E Geary St

Peak Hour Turning Movement Count

ID: 20-090181-001
City: Fresno

Day: Thursday
Date: 12/10/2020

PEAK HOURS

AM	NONE
NOON	NONE
PM	04:30 PM - 05:30 PM

COUNT PERIODS

AM	NONE
NOON	NONE
PM	04:00 PM - 06:00 PM

S Peach Ave — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	546	0	0	489	PM

EASTBOUND — E Geary St

AM	NOON	PM	
0	0	0	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
AM	NOON	PM	

WESTBOUND — E Geary St

PM	NOON	AM	
33	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
5	0	0	
PM	NOON	AM	

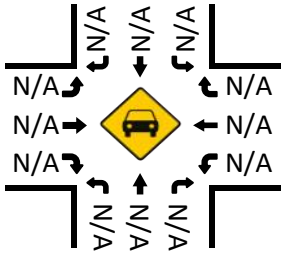
CONTROL: 1-Way Stop (WB)

	AM	NOON	PM
TEV	0	0	1040
PHF			0.95

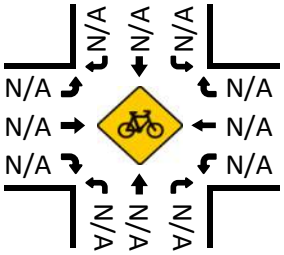
NORTHBOUND — S Peach Ave

PM	546	0	0	456	5	PM
NOON	0	0	0	0	0	NOON
AM	0	0	0	0	0	AM

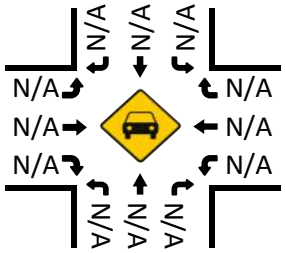
Total Vehicles (AM)



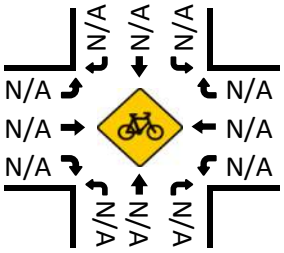
Bikes (AM)



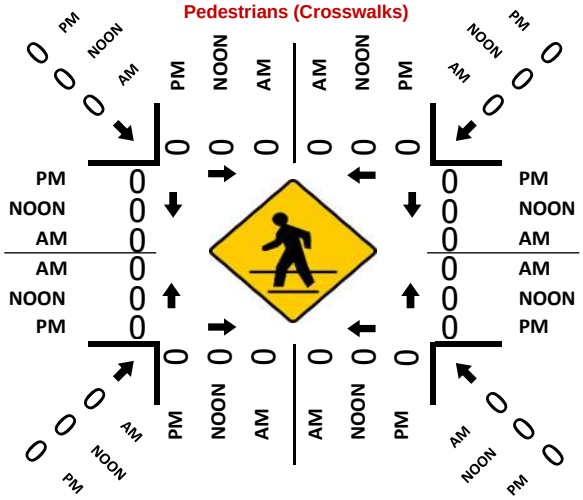
Total Vehicles (Noon)



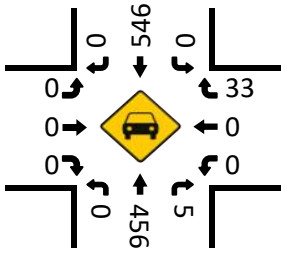
Bikes (NOON)



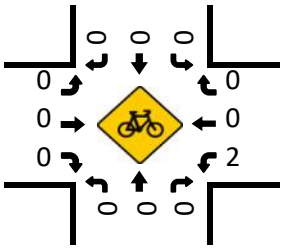
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



Prepared by National Data & Surveying Services

S Peach Ave & E Geary St

Peak Hour Turning Movement Count

ID: 20-090181-001
City: Fresno

Day: Saturday
Date: 12/12/2020

PEAK HOURS		COUNT PERIODS
AM	NONE	NONE
NOON	11:45 AM - 12:45 PM	11:00 AM - 01:00 PM
PM	NONE	NONE

S Peach Ave – SOUTHBOUND

	U-turn/Left	Through	Right	U-turn	Departing
AM	0	0	0	0	0
NOON	0	426	3	0	399
PM	0	0	0	0	0
Peak lanes	0	1	0	0	

E Geary St – WESTBOUND

	Lanes	AM	NOON	PM
Right	0	0	46	0
Through	1	0	0	0
Left	0	0	0	0
U-turn	0	0	0	0
Departing		0	7	0

E Geary St – EASTBOUND

	Lanes	AM	NOON	PM
Departing		0	0	0
U-turn	0	0	0	0
Left	0	0	0	0
Through	0	0	0	0
Right	0	0	0	0

S Peach Ave – NORTHBOUND

	Departing	U-turn	Left	Through	Right
Lanes		0	0	1	0
PM	0	0	0	0	0
NOON	426	0	0	353	4
AM	0	0	0	0	0

CONTROL

1-Way Stop(WB)

	AM	NOON	PM
TEV	0	832	0
PHF		0.92	

Total Vehicles (AM)

All movements: N/A

Total Vehicles (Noon)

Approach	U-turn	Left	Through	Right
Southbound	0		426	3
Westbound		0	0	46
Eastbound		0	0	0
Northbound	0		353	4

Total Vehicles (PM)

All movements: N/A

Bikes (AM)

All movements: N/A

Bikes (NOON)

All movements: 0

Bikes (PM)

All movements: N/A

Pedestrians (Crosswalks)

Crosswalk	AM	NOON	PM
North	0	0	0
South	0	0	0
East	0	1	0
West	0	0	0
Diagonals (all)	0	0	0

Prepared by National Data & Surveying Services

S Peach Ave & E Church Ave

Peak Hour Turning Movement Count

ID: 20-090183-001
City: Fresno

Day: Thursday
Date: 12/17/2020

PEAK HOURS

AM	NONE
NOON	NONE
PM	04:30 PM - 05:30 PM

COUNT PERIODS

AM	NONE
NOON	NONE
PM	4:00 PM - 06:00 PM

SOUTHBOUND (S Peach Ave)

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	91	218	127	0	420	PM

EASTBOUND (E Church Ave)

AM	NOON	PM	
0	0	231	
0	0	0	0
0	0	69	1
0	0	147	1
0	0	16	0
AM	NOON	PM	

WESTBOUND (E Church Ave)

PM	NOON	AM	
68	0	0	0
129	0	0	1
16	0	0	1
0	0	0	0
310	0	0	
PM	NOON	AM	

NORTHBOUND (S Peach Ave)

PM	250	0	11	283	36	PM
NOON	0	0	0	0	0	NOON
AM	0	0	0	0	0	AM

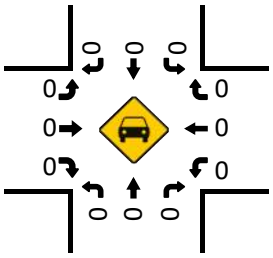
	1	1	1	0
	0	1	1	1

CONTROL

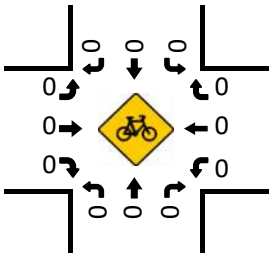
Signalized

	AM	NOON	PM
TEV	0	0	1211
PHF			0.92

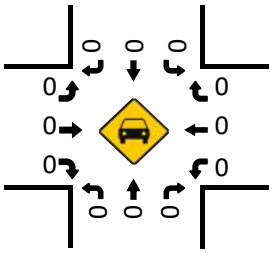
Totals (AM)



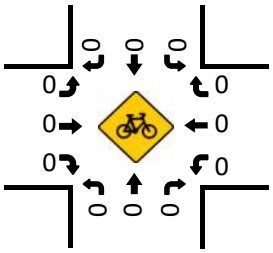
Total Bikes (AM)



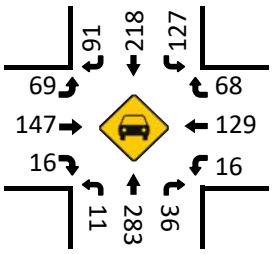
Totals (NOON)



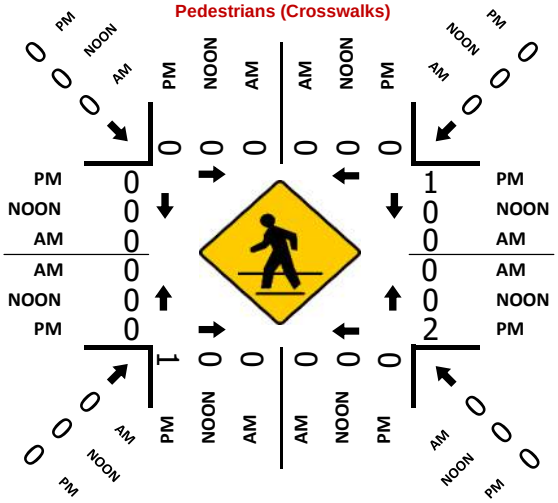
Total Bikes (NOON)



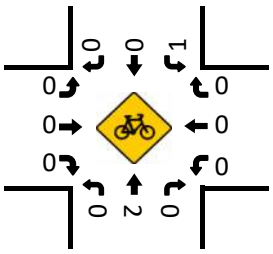
Totals (PM)



Pedestrians (Crosswalks)



Total Bikes (PM)



Prepared by National Data & Surveying Services

S Peach Ave & E Church Ave

Peak Hour Turning Movement Count

ID: 20-090183-001
City: Fresno

Day: Saturday
Date: 12/19/2020

PEAK HOURS

AM	NONE
NOON	12:00 PM - 01:00 PM
PM	NONE

COUNT PERIODS

AM	NONE
NOON	11:00 AM - 01:00 PM
PM	NONE

SOUTHBOUND (S Peach Ave)

AM	0	0	0	0	0	AM
NOON	64	157	102	0	304	NOON
PM	0	0	0	0	0	PM

EASTBOUND (E Church Ave)

AM	NOON	PM	
0	193	0	
0	0	0	0
0	61	0	1
0	115	0	1
0	15	0	0
AM	NOON	PM	

WESTBOUND (E Church Ave)

PM	NOON	AM	
0	70	0	0
0	111	0	1
0	16	0	1
0	0	0	0
0	239	0	
PM	NOON	AM	

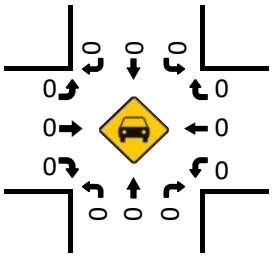
NORTHBOUND (S Peach Ave)

PM	0	0	0	0	0	PM
NOON	188	0	18	173	22	NOON
AM	0	0	0	0	0	AM

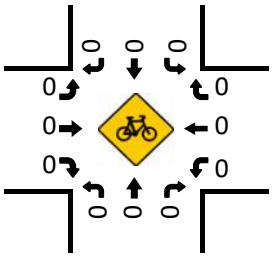
CONTROL: Signalized

	AM	NOON	PM
TEV	0	924	0
PHF		0.92	

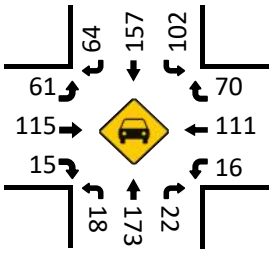
Totals (AM)



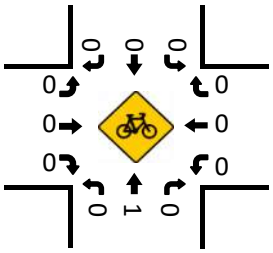
Total Bikes (AM)



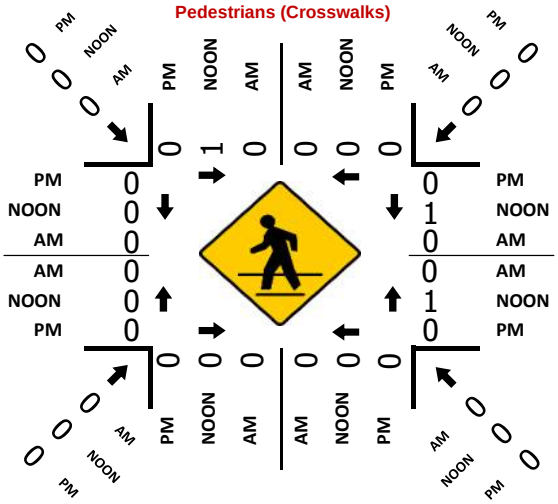
Totals (NOON)



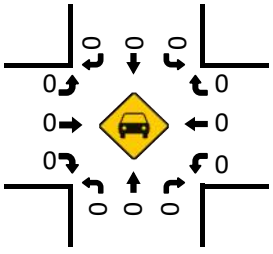
Total Bikes (NOON)



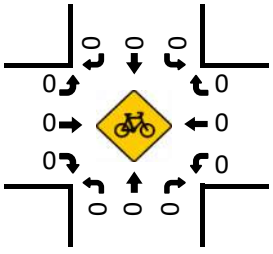
Pedestrians (Crosswalks)



Totals (PM)



Total Bikes (PM)



Prepared by National Data & Surveying Services

S Peach Ave & E Jensen Ave

Peak Hour Turning Movement Count

ID: 20-090183-002
City: Fresno

Day: Thursday
Date: 12/17/2020

PEAK HOURS	COUNT PERIODS
NONE	NONE
NONE	NONE
04:15 PM - 05:15 PM	4:00 PM - 06:00 PM

SOUTHBOUND (S Peach Ave)

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	71	54	68	0	319	PM
	0	1	0	0		

EASTBOUND (E Jensen Ave)

AM	NOON	PM	
0	0	399	
0	0	1	0
0	0	149	1
0	0	522	2
0	0	13	0

WESTBOUND (E Jensen Ave)

	PM	NOON	AM
1	61	0	0
2	309	0	0
1	5	0	0
0	2	0	0
	609	0	0

NORTHBOUND (S Peach Ave)

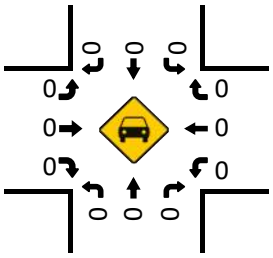
PM	72	0	18	109	17
NOON	0	0	0	0	0
AM	0	0	0	0	0
		0	0	1	0

CONTROL

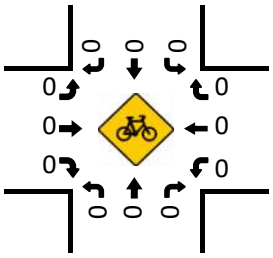
Signalized

	AM	NOON	PM
TEV	0	0	1399
PHF			0.95

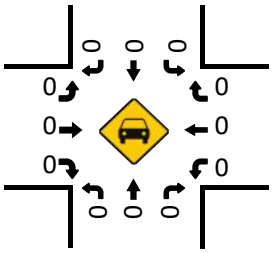
Totals (AM)



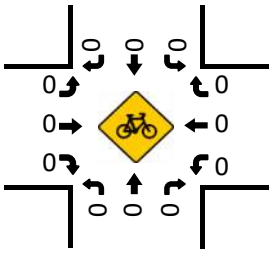
Total Bikes (AM)



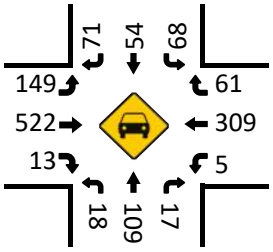
Totals (NOON)



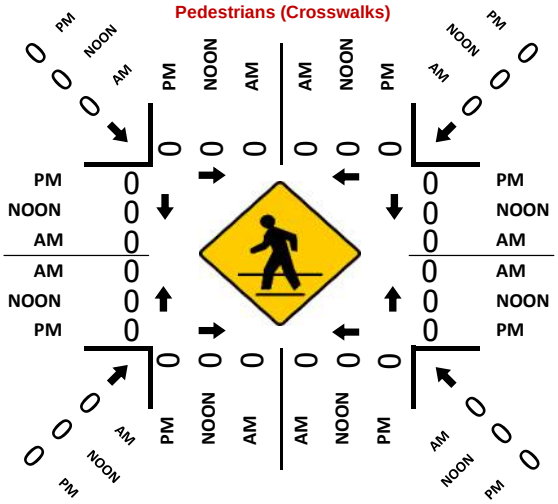
Total Bikes (NOON)



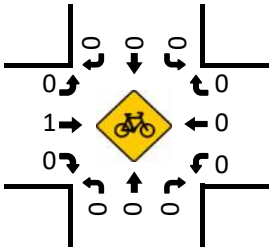
Totals (PM)



Pedestrians (Crosswalks)



Total Bikes (PM)



Prepared by National Data & Surveying Services

S Peach Ave & E Jensen Ave

Peak Hour Turning Movement Count

ID: 20-090183-002
City: Fresno

Day: Saturday
Date: 12/19/2020

PEAK HOURS

AM	NONE
NOON	12:00 PM - 01:00 PM
PM	NONE

COUNT PERIODS

AM	NONE
NOON	11:00 AM - 01:00 PM
PM	NONE

SOUTHBOUND (S Peach Ave)

AM	0	0	0	0	0	AM
NOON	65	40	55	0	192	NOON
PM	0	0	0	0	0	PM

EASTBOUND (E Jensen Ave)

AM	NOON	PM	
0	340	0	
0	0	0	0
0	91	0	1
0	288	0	2
0	11	0	0
AM	NOON	PM	

WESTBOUND (E Jensen Ave)

PM	NOON	AM	
0	59	0	1
0	269	0	2
0	11	0	1
0	1	0	0
0	356	0	
PM	NOON	AM	

NORTHBOUND (S Peach Ave)

PM	0	0	0	0	0	PM
NOON	62	0	6	42	12	NOON
AM	0	0	0	0	0	AM

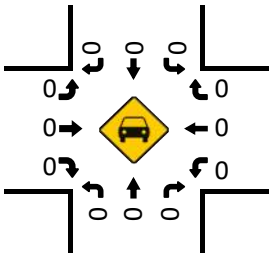
	0	1	0	0
	0	0	1	0

CONTROL

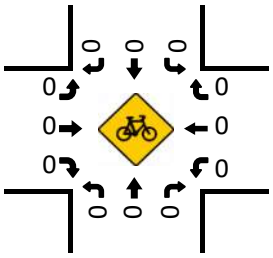
Signalized

	AM	NOON	PM
TEV	0	950	0
PHF		0.97	

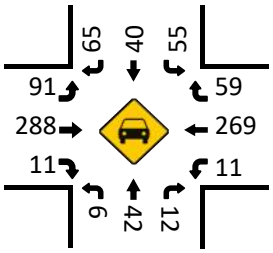
Totals (AM)



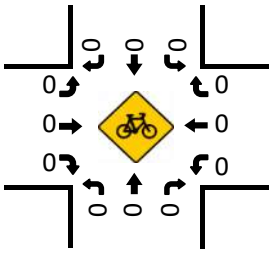
Total Bikes (AM)



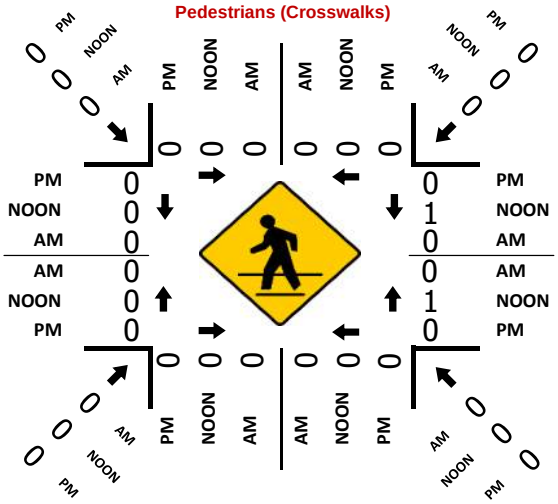
Totals (NOON)



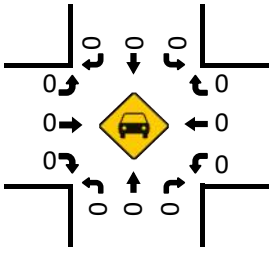
Total Bikes (NOON)



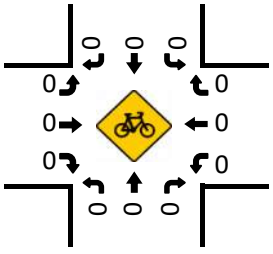
Pedestrians (Crosswalks)



Totals (PM)



Total Bikes (PM)

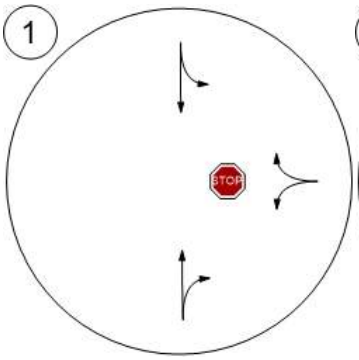


Appendix 3 Volume and Lane Configuration Figures

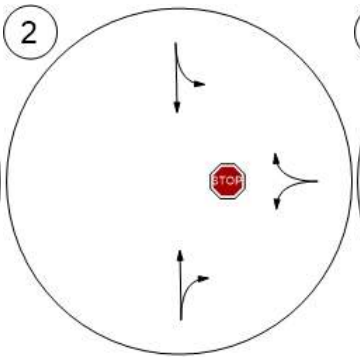
Report Figure 0: Lane Configuration and Traffic Control



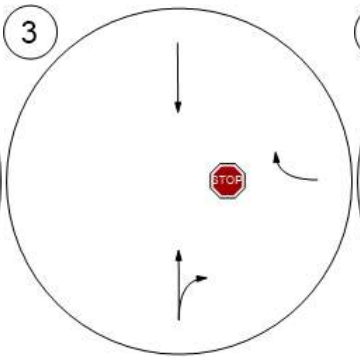
S. Peach Avenue & Regional



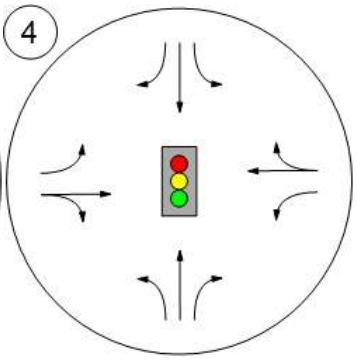
S. Peach Avenue & Soccer C



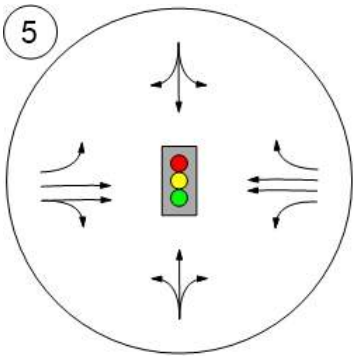
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



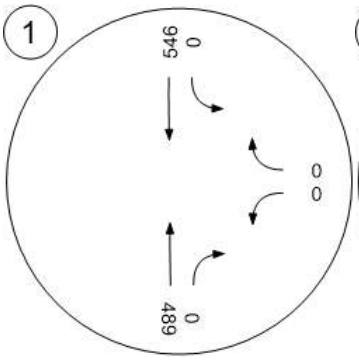
S. Peach Avenue & E. Jense



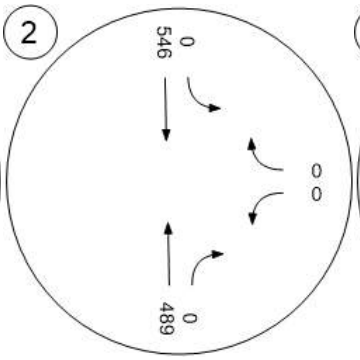
Report Figure 1a: Traffic Volume - Base Volume



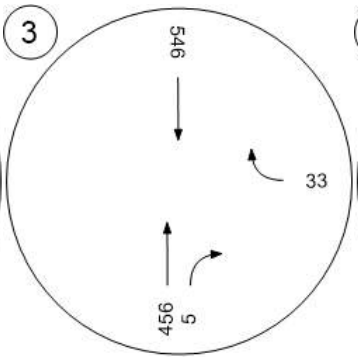
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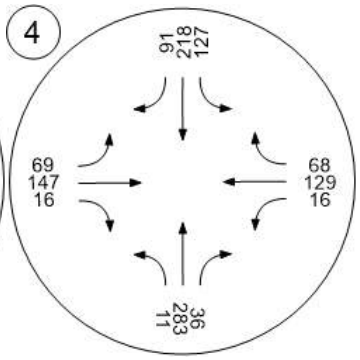
S. Peach Avenue & Soccer C



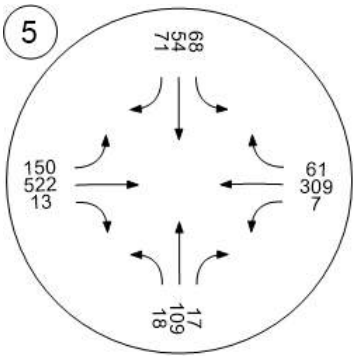
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



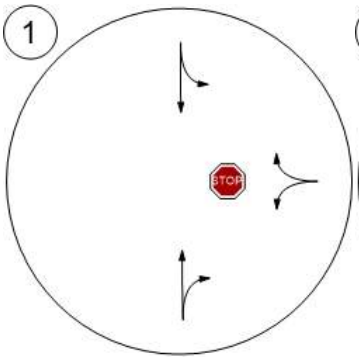
S. Peach Avenue & E. Jense



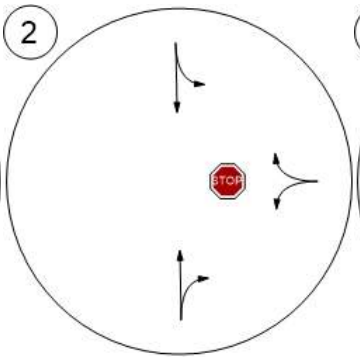
Report Figure 0: Lane Configuration and Traffic Control



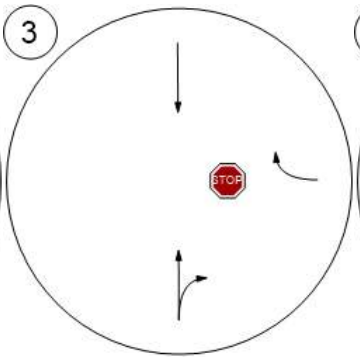
S. Peach Avenue & Regional



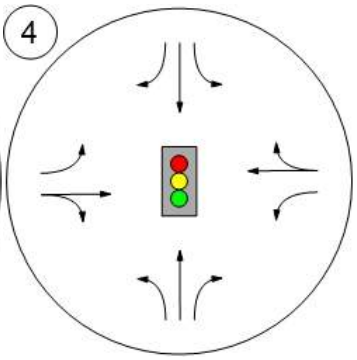
S. Peach Avenue & Soccer C



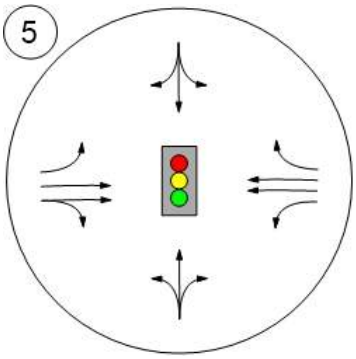
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



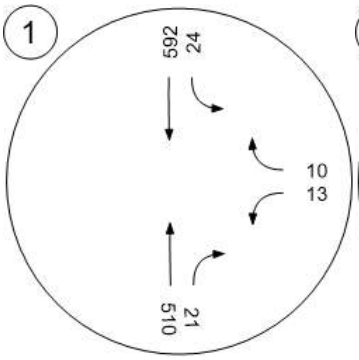
S. Peach Avenue & E. Jense



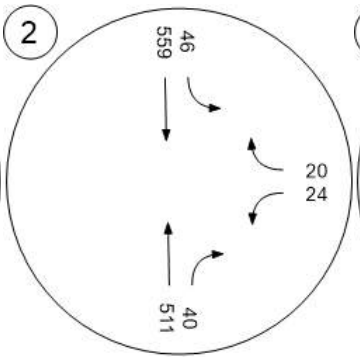
Report Figure 1f: Traffic Volume - Future Total Volume



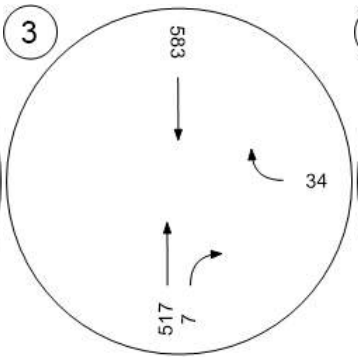
S. Peach Avenue & Regional



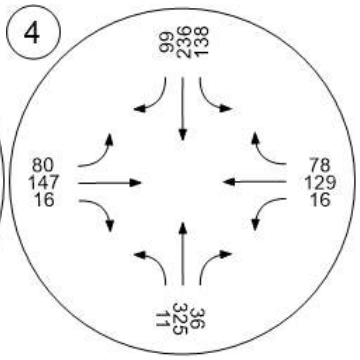
S. Peach Avenue & Soccer C



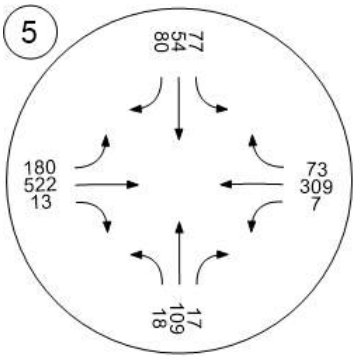
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



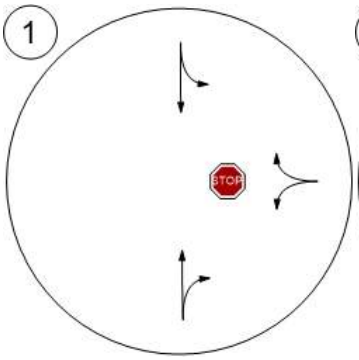
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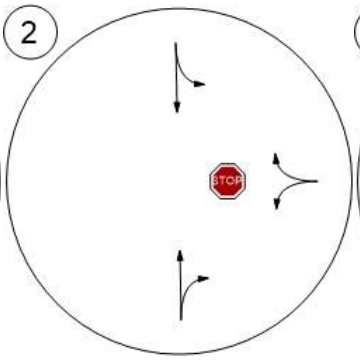
Report Figure 0: Lane Configuration and Traffic Control



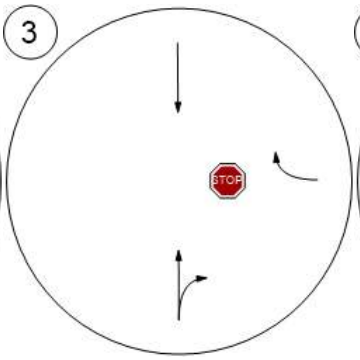
S. Peach Avenue & Regional



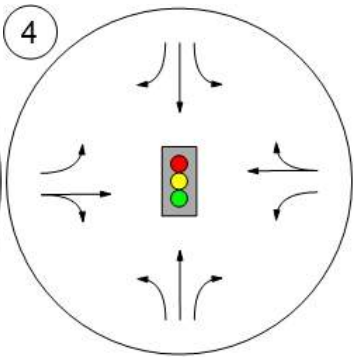
S. Peach Avenue & Soccer C



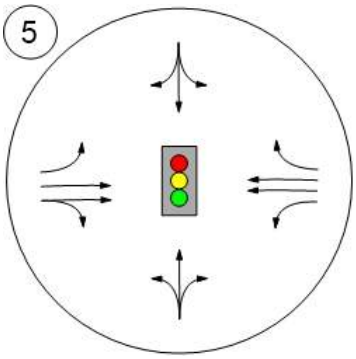
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



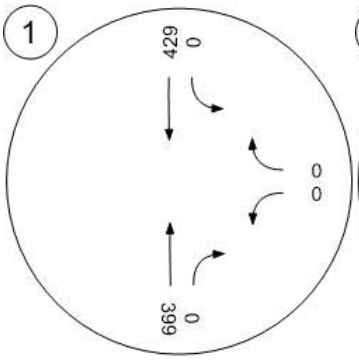
S. Peach Avenue & E. Jense



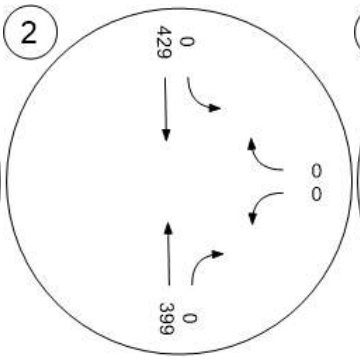
Report Figure 1a: Traffic Volume - Base Volume



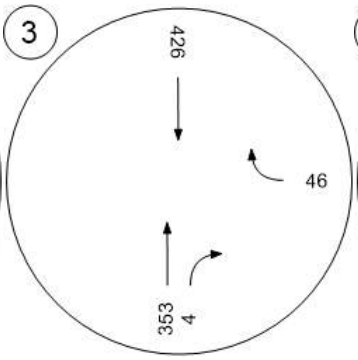
S. Peach Avenue & Regional



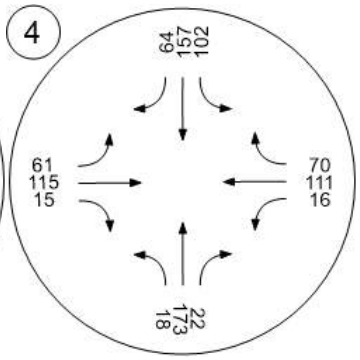
S. Peach Avenue & Soccer C



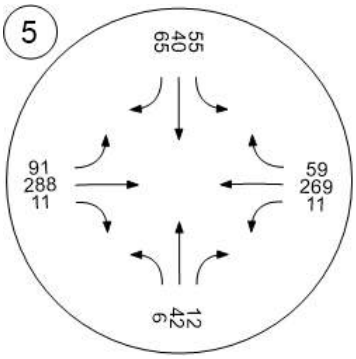
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



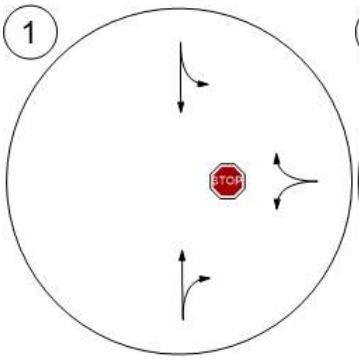
S. Peach Avenue & E. Jense



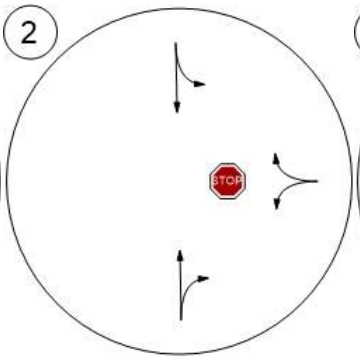
Report Figure 0: Lane Configuration and Traffic Control



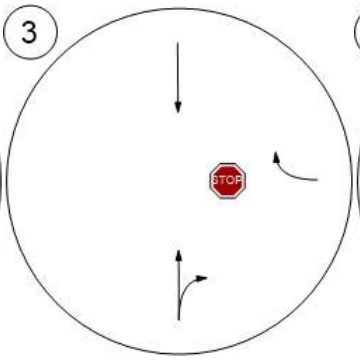
S. Peach Avenue & Regional



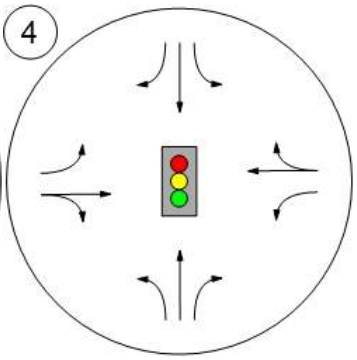
S. Peach Avenue & Soccer C



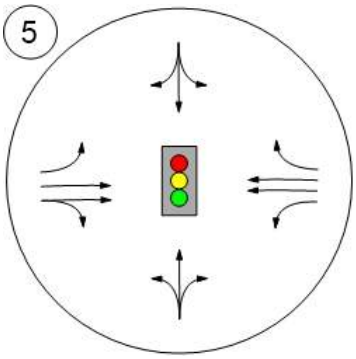
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



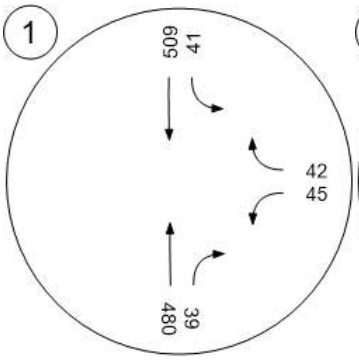
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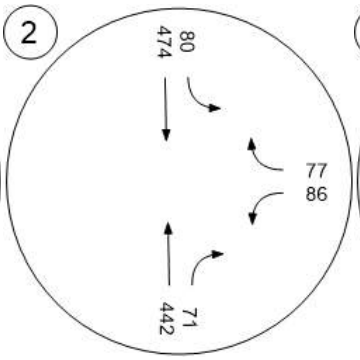
Report Figure 1f: Traffic Volume - Future Total Volume



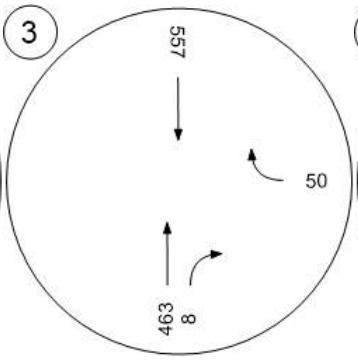
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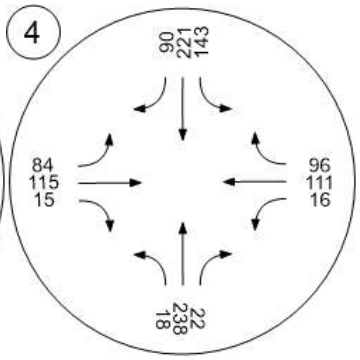
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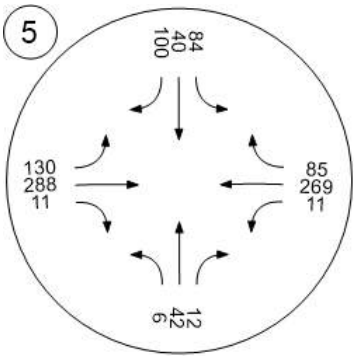
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



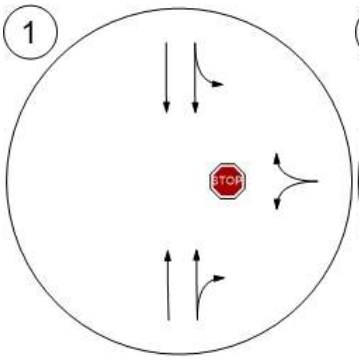
S. Peach Avenue & E. Jense



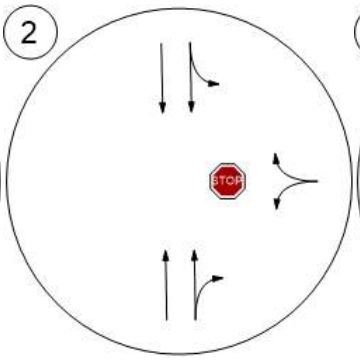
Report Figure 0: Lane Configuration and Traffic Control



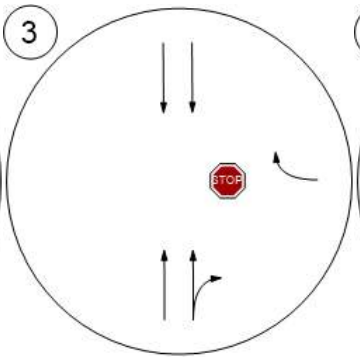
S. Peach Avenue & Regional



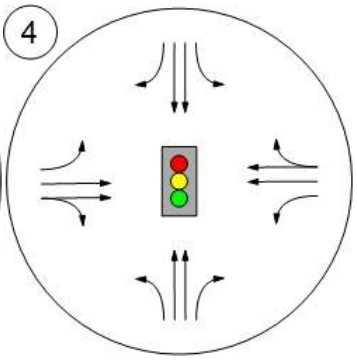
S. Peach Avenue & Soccer C



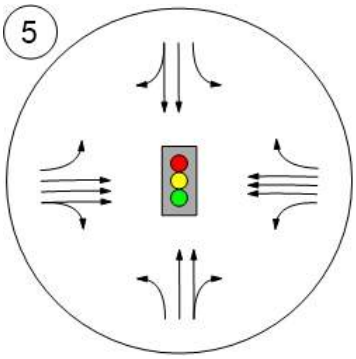
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



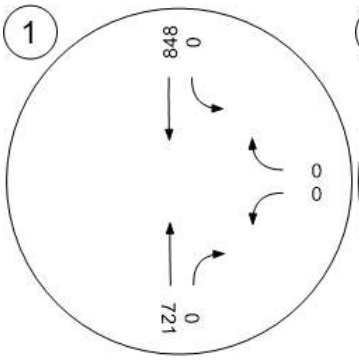
S. Peach Avenue & E. Jense



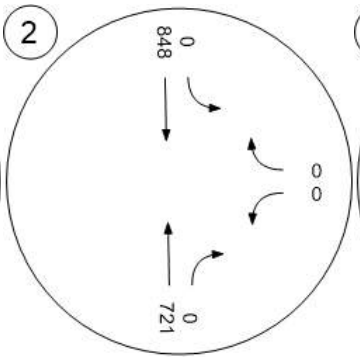
Report Figure 1f: Traffic Volume - Future Total Volume



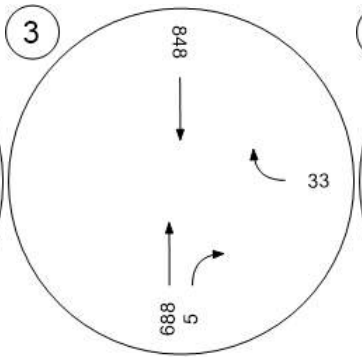
S. Peach Avenue & Regional



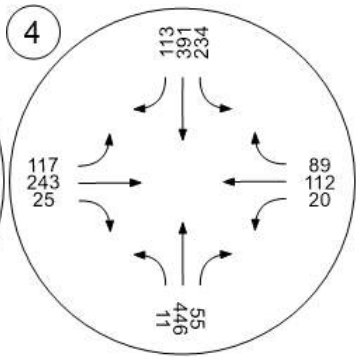
S. Peach Avenue & Soccer C



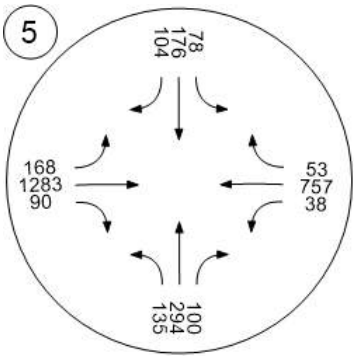
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc

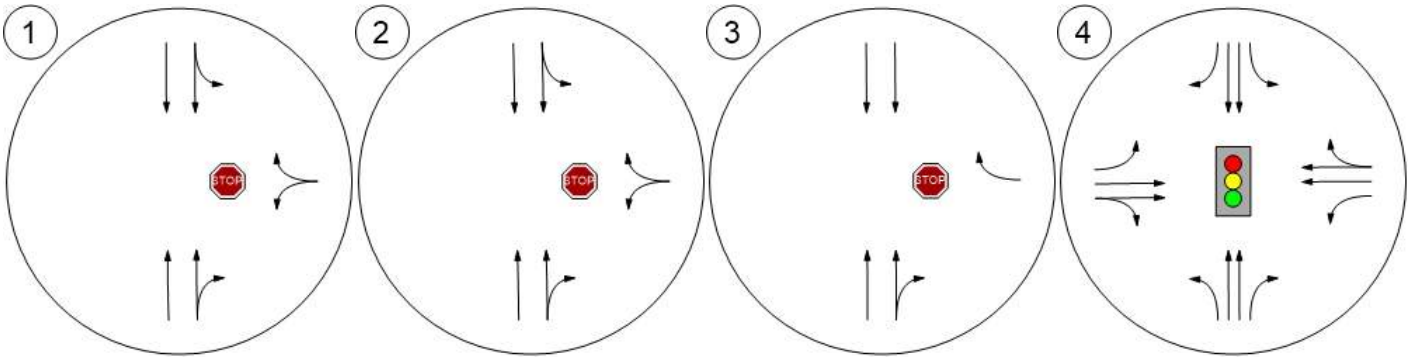


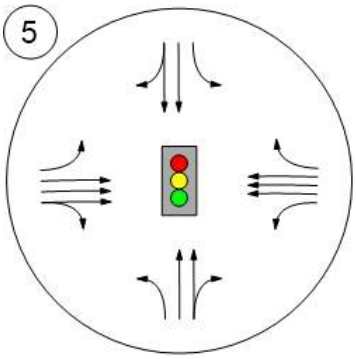
S. Peach Avenue & E. Jense



Lane Configuration and Traffic Control

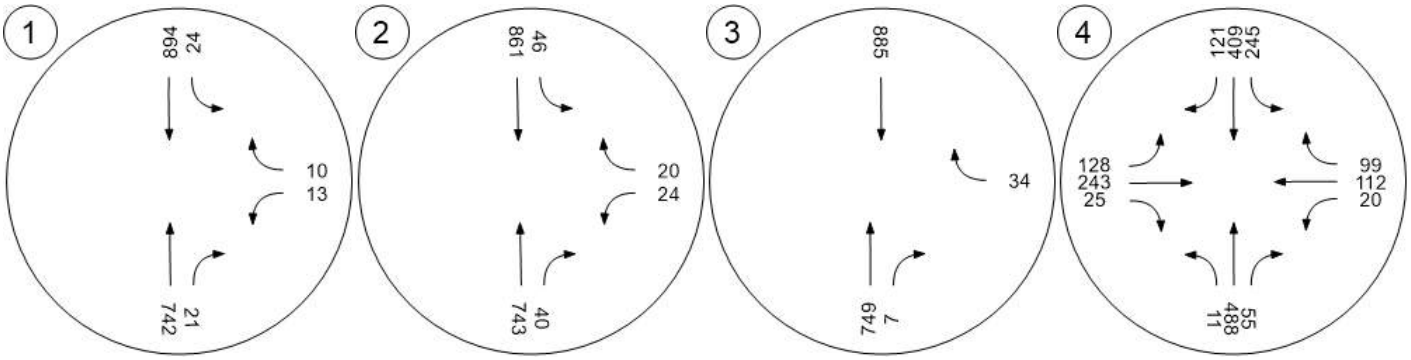


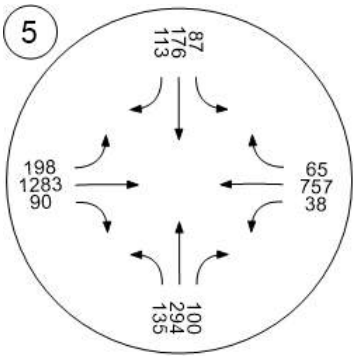




Traffic Volume - Future Total Volume

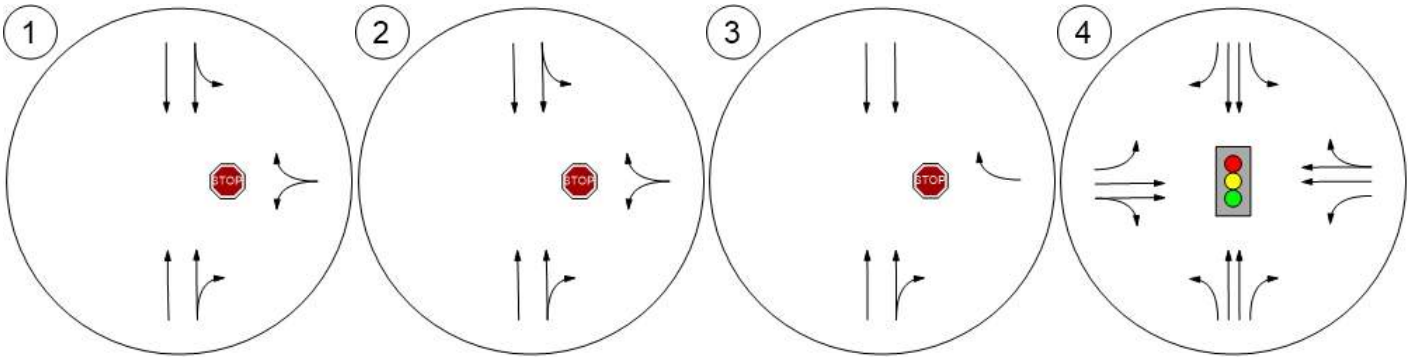


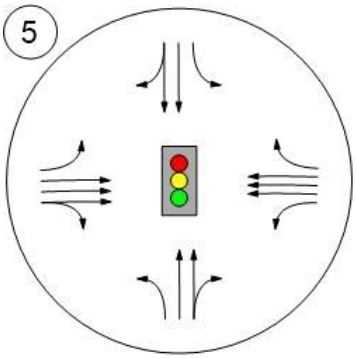




Lane Configuration and Traffic Control

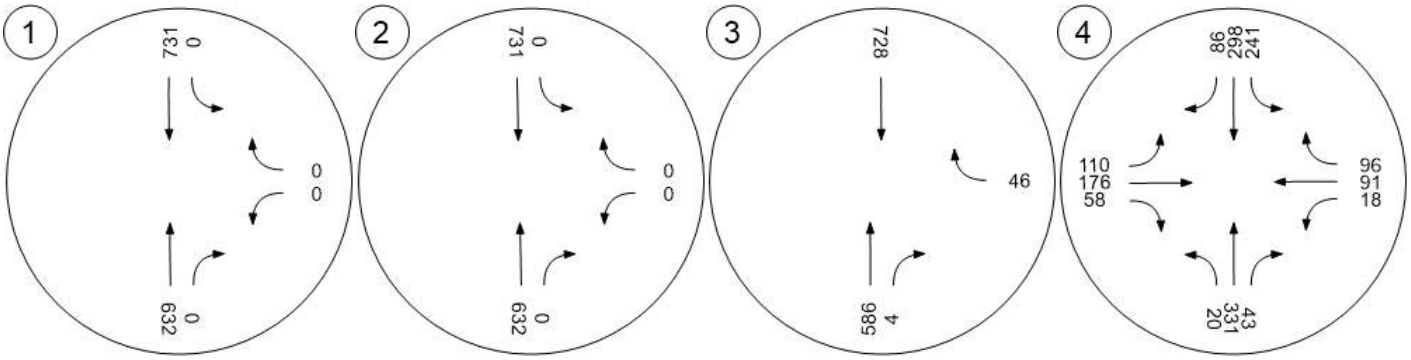


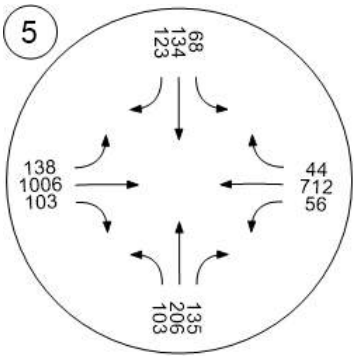




Traffic Volume - Future Total Volume

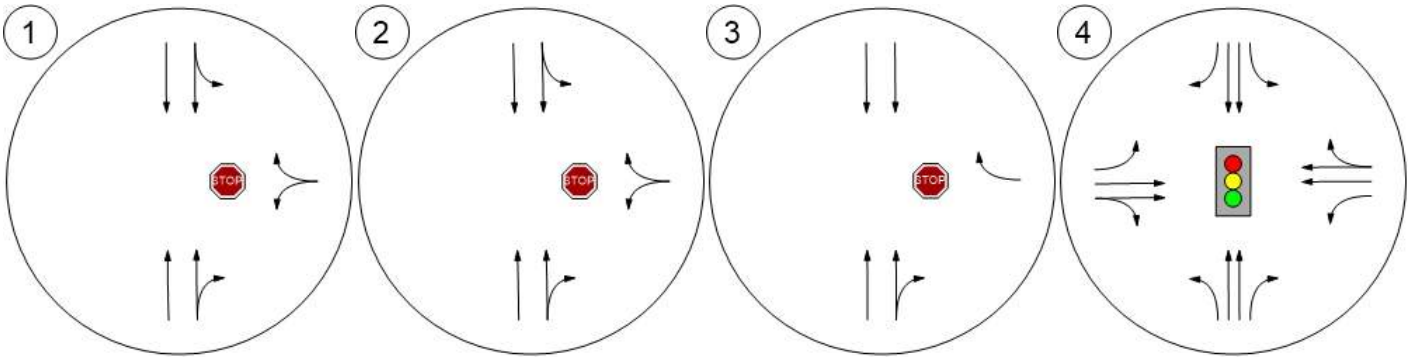


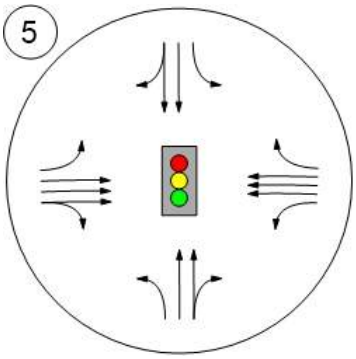




Lane Configuration and Traffic Control

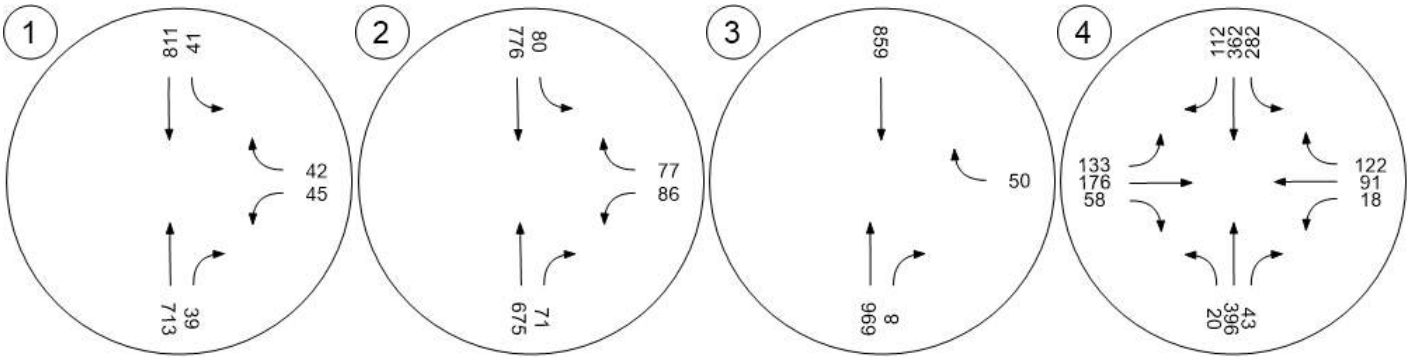


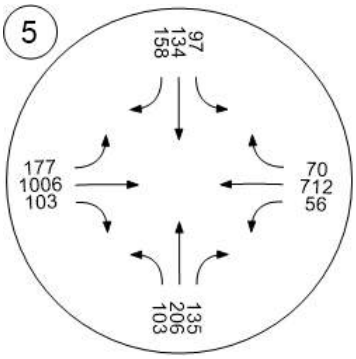




Traffic Volume - Future Total Volume





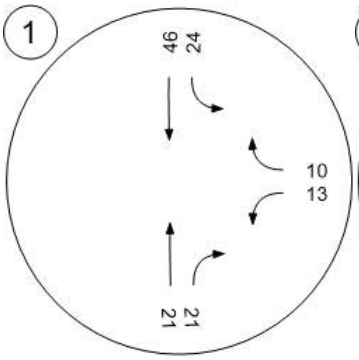


Appendix 4 Volume Figures – Net Volume Changes

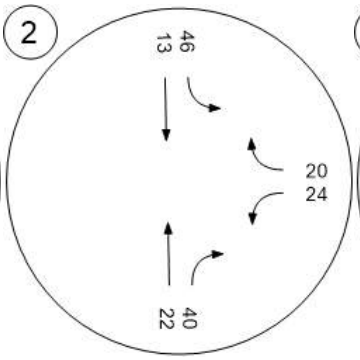
Report Figure 1d: Traffic Volume - Net New Site Trips



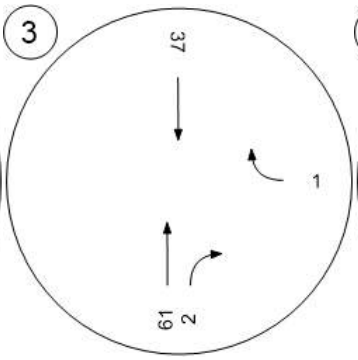
S. Peach Avenue & Regional



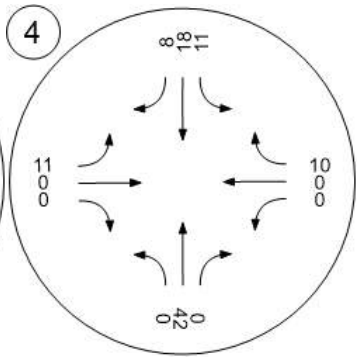
S. Peach Avenue & Soccer C



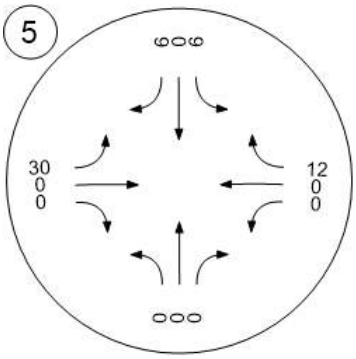
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



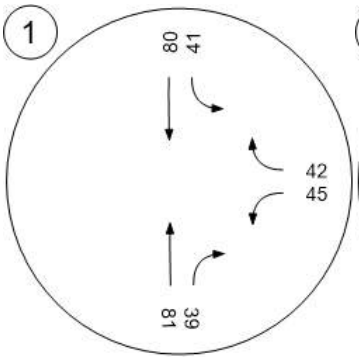
S. Peach Avenue & E. Jense



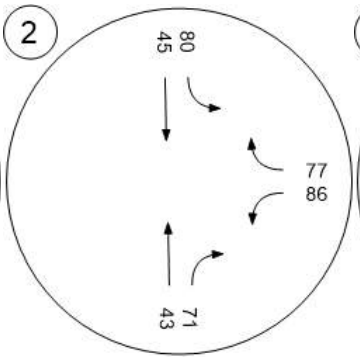
Report Figure 1d: Traffic Volume - Net New Site Trips



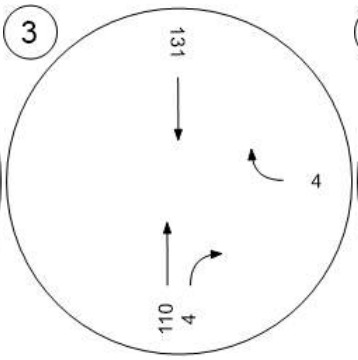
S. Peach Avenue & Regional



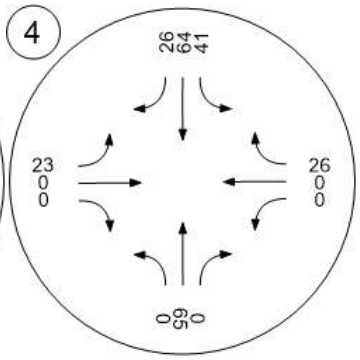
S. Peach Avenue & Soccer C



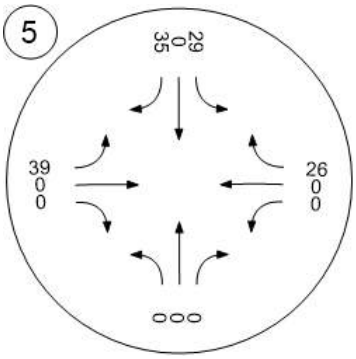
S. Peach Avenue & E. Geary



S. Peach Avenue & E. Churc



S. Peach Avenue & E. Jense



Appendix 5 Level of Service Worksheets

SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201229.vistro
Scenario 2 Existing Saturday

Report File: H:\...\Existing PM_LOS Details.pdf
12/29/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.005	0.0	A
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.005	0.0	A
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.076	10.9	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	WB Thru	0.426	18.8	B
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.303	11.8	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	0	0	429	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	108	0	0	117	0	0
Total Analysis Volume [veh/h]	434	0	0	466	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.20	0.00	16.65	10.79
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		13.72	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	0	0	429	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	108	0	0	117	0	0
Total Analysis Volume [veh/h]	434	0	0	466	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.20	0.00	16.65	10.79
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		13.72	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	10.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.076

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	353	4	0	426	0	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	353	4	0	426	0	46
Peak Hour Factor	0.9200	0.9200	1.0000	0.9200	1.0000	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	96	1	0	116	0	13
Total Analysis Volume [veh/h]	384	4	0	463	0	50
Pedestrian Volume [ped/h]	0		0		1	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.08
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	10.90
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.24
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	6.12
d_A, Approach Delay [s/veh]	0.00		0.00		10.90	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.60					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	18.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.426

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	100.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	18	173	22	102	157	64	61	115	15	16	111	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	173	22	102	157	64	61	115	15	16	111	70
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	47	6	28	43	17	17	31	4	4	30	19
Total Analysis Volume [veh/h]	20	188	24	111	171	70	66	125	16	17	121	76
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			1			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			1		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	L	C
C, Cycle Length [s]	45	45	45	45	45	45	45	45	45	45
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.00	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.00	2.90
g_i, Effective Green Time [s]	2	8	8	6	12	12	5	11	2	8
g / C, Green / Cycle	0.04	0.17	0.17	0.13	0.27	0.27	0.10	0.23	0.03	0.17
(v / s)_i Volume / Saturation Flow Rate	0.01	0.10	0.02	0.06	0.09	0.04	0.04	0.08	0.01	0.11
s, saturation flow rate [veh/h]	1781	1870	1580	1781	1870	1589	1781	1833	1781	1749
c, Capacity [veh/h]	72	320	270	240	496	422	181	432	62	296
d1, Uniform Delay [s]	21.01	17.24	15.75	18.01	13.40	12.74	18.92	14.28	21.22	17.55
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.04	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.77	4.67	0.39	0.52	1.13	0.51	0.46	2.09	0.86	5.17
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.28	0.59	0.09	0.46	0.34	0.17	0.36	0.33	0.27	0.67
d, Delay for Lane Group [s/veh]	21.78	21.91	16.13	18.53	14.53	13.24	19.37	16.37	22.08	22.72
Lane Group LOS	C	C	B	B	B	B	B	B	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.20	1.98	0.21	0.97	1.34	0.52	0.59	1.27	0.17	2.09
50th-Percentile Queue Length [ft/ln]	4.99	49.38	5.27	24.29	33.48	12.99	14.86	31.75	4.31	52.23
95th-Percentile Queue Length [veh/ln]	0.36	3.56	0.38	1.75	2.41	0.94	1.07	2.29	0.31	3.76
95th-Percentile Queue Length [ft/ln]	8.97	88.88	9.49	43.73	60.26	23.38	26.74	57.14	7.75	94.02

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	21.78	21.91	16.13	18.53	14.53	13.24	19.37	16.37	16.37	22.08	22.72	22.72
Movement LOS	C	C	B	B	B	B	B	B	B	C	C	C
d_A, Approach Delay [s/veh]	21.30			15.54			17.33			22.67		
Approach LOS	C			B			B			C		
d_I, Intersection Delay [s/veh]	18.75											
Intersection LOS	B											
Intersection V/C	0.426											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	12.82	12.82	12.82	12.82
I_p,int, Pedestrian LOS Score for Intersection	2.197	2.257	2.036	2.054
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1335	1335	1335	1335
d_b, Bicycle Delay [s]	2.48	2.48	2.48	2.48
I_b,int, Bicycle LOS Score for Intersection	1.942	2.140	1.901	1.913
Bicycle LOS	A	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	11.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.303

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	6	42	12	55	40	65	91	288	11	11	269	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	6	42	12	55	40	65	91	288	11	11	269	59
Peak Hour Factor	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	11	3	14	10	17	23	74	3	3	69	15
Total Analysis Volume [veh/h]	6	43	12	57	41	67	94	297	11	11	277	61
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	20.0	0.0	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	R
C, Cycle Length [s]	37	37	37	37	37	37	37	37
L, Total Lost Time per Cycle [s]	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	6	6	3	14	14	0	12	12
g / C, Green / Cycle	0.16	0.16	0.07	0.37	0.37	0.01	0.32	0.32
(v / s)_i Volume / Saturation Flow Rate	0.03	0.10	0.05	0.08	0.08	0.01	0.08	0.04
s, saturation flow rate [veh/h]	1818	1674	1781	1870	1847	1781	3560	1589
c, Capacity [veh/h]	392	393	125	698	689	22	1124	502
d1, Uniform Delay [s]	13.68	14.57	16.98	7.96	7.97	18.25	9.44	9.06
k, delay calibration	0.13	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.22	1.09	3.39	0.46	0.47	6.01	0.33	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.16	0.42	0.75	0.22	0.22	0.49	0.25	0.12
d, Delay for Lane Group [s/veh]	13.90	15.66	20.37	8.42	8.44	24.26	9.77	9.37
Lane Group LOS	B	B	C	A	A	C	A	A
Critical Lane Group	No	Yes	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.39	1.17	0.78	0.69	0.69	0.12	0.68	0.31
50th-Percentile Queue Length [ft/ln]	9.75	29.30	19.55	17.28	17.18	2.95	16.88	7.68
95th-Percentile Queue Length [veh/ln]	0.70	2.11	1.41	1.24	1.24	0.21	1.22	0.55
95th-Percentile Queue Length [ft/ln]	17.54	52.75	35.19	31.11	30.92	5.31	30.39	13.82

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	13.90	13.90	13.90	15.66	15.66	15.66	20.37	8.43	8.44	24.26	9.77	9.37
Movement LOS	B	B	B	B	B	B	C	A	A	C	A	A
d_A, Approach Delay [s/veh]	13.90			15.66			11.22			10.16		
Approach LOS	B			B			B			B		
d_I, Intersection Delay [s/veh]	11.76											
Intersection LOS	B											
Intersection V/C	0.303											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	9.15	0.00	9.15
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.004	0.000	2.596
Crosswalk LOS	F	B	F	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	918	918	2593	2593
d_b, Bicycle Delay [s]	5.42	5.42	1.63	1.63
l_b,int, Bicycle LOS Score for Intersection	1.660	1.832	1.891	1.848
Bicycle LOS	A	A	A	A

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

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Report File: H:\...\Existing PM+Proj_LOS Details.pdf

Scenario 3 Existing PM + Project
12/29/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	WB Left	0.078	26.5	D
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	WB Left	0.155	30.1	D
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.067	12.2	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	NB Left	0.567	22.2	C
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.416	13.4	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	26.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.078

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	489	0	0	546	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	21	21	24	46	13	10
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	510	21	24	592	13	10
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	139	6	7	161	4	3
Total Analysis Volume [veh/h]	554	23	26	643	14	11
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.03	0.01	0.08	0.02
d_M, Delay for Movement [s/veh]	0.00	0.00	8.71	0.00	26.51	13.42
Movement LOS	A	A	A	A	D	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.08	0.08	0.32	0.32
95th-Percentile Queue Length [ft/ln]	0.00	0.00	2.01	2.01	8.11	8.11
d_A, Approach Delay [s/veh]	0.00		0.34		20.75	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.59					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	30.1
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.155

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	489	0	0	546	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	22	40	46	13	24	20
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	511	40	46	559	24	20
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	139	11	13	152	7	5
Total Analysis Volume [veh/h]	555	43	50	608	26	22
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.05	0.01	0.15	0.04
d_M, Delay for Movement [s/veh]	0.00	0.00	8.88	0.00	30.07	15.58
Movement LOS	A	A	A	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.16	0.16	0.72	0.72
95th-Percentile Queue Length [ft/ln]	0.00	0.00	4.03	4.03	17.94	17.94
d_A, Approach Delay [s/veh]	0.00		0.67		23.43	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.20					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	12.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.067

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	456	5	0	546	0	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	61	2	0	37	0	1
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	517	7	0	583	0	34
Peak Hour Factor	0.9500	0.9500	1.0000	0.9500	1.0000	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	136	2	0	153	0	9
Total Analysis Volume [veh/h]	544	7	0	614	0	36
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.07
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	12.19
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.22
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	5.38
d_A, Approach Delay [s/veh]	0.00		0.00		12.19	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.37					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	22.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.567

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	100.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	11	283	36	127	218	91	69	147	16	16	129	68
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	42	0	11	18	8	11	0	0	0	0	10
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	325	36	138	236	99	80	147	16	16	129	78
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	88	10	38	64	27	22	40	4	4	35	21
Total Analysis Volume [veh/h]	12	353	39	150	257	108	87	160	17	17	140	85
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	1			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			1			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	2			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	L	C
C, Cycle Length [s]	58	58	58	58	58	58	58	58	58	58
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.00	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.00	2.90
g_i, Effective Green Time [s]	1	15	15	7	21	21	6	14	2	10
g / C, Green / Cycle	0.02	0.26	0.26	0.13	0.36	0.36	0.10	0.25	0.03	0.18
(v / s)_i Volume / Saturation Flow Rate	0.01	0.19	0.03	0.08	0.14	0.07	0.05	0.10	0.01	0.13
s, saturation flow rate [veh/h]	1781	1870	1544	1781	1870	1589	1781	1838	1781	1753
c, Capacity [veh/h]	44	494	408	224	683	580	187	458	60	312
d1, Uniform Delay [s]	27.93	19.47	16.19	24.34	13.63	12.62	24.58	18.21	27.49	22.62
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.04	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.21	5.23	0.28	1.29	0.95	0.42	0.68	2.57	0.94	6.27
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.27	0.71	0.10	0.67	0.38	0.19	0.47	0.39	0.28	0.72
d, Delay for Lane Group [s/veh]	29.13	24.71	16.47	25.63	14.58	13.04	25.26	20.78	28.44	28.89
Lane Group LOS	C	C	B	C	B	B	C	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.17	4.64	0.39	1.92	2.38	0.92	1.09	2.14	0.23	3.23
50th-Percentile Queue Length [ft/ln]	4.26	115.92	9.79	47.99	59.39	23.05	27.34	53.47	5.85	80.69
95th-Percentile Queue Length [veh/ln]	0.31	8.17	0.70	3.46	4.28	1.66	1.97	3.85	0.42	5.81
95th-Percentile Queue Length [ft/ln]	7.66	204.21	17.62	86.38	106.90	41.50	49.21	96.24	10.53	145.25

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	29.13	24.71	16.47	25.63	14.58	13.04	25.26	20.78	20.78	28.44	28.89	28.89
Movement LOS	C	C	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	24.04			17.48			22.26			28.86		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	22.16											
Intersection LOS	C											
Intersection V/C	0.567											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	19.10	19.10	19.10	19.10
l_p,int, Pedestrian LOS Score for Intersection	2.276	2.360	2.086	2.108
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1032	1032	1032	1032
d_b, Bicycle Delay [s]	6.81	6.80	6.80	6.80
l_b,int, Bicycle LOS Score for Intersection	2.226	2.409	1.995	1.959
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	13.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.416

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	18	109	17	68	54	71	150	522	13	7	309	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	9	0	9	30	0	0	0	0	12
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	109	17	77	54	80	180	522	13	7	309	73
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	29	4	20	14	21	47	137	3	2	81	19
Total Analysis Volume [veh/h]	19	115	18	81	57	84	189	549	14	7	325	77
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street [	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			1			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	20.0	0.0	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	R
C, Cycle Length [s]	42	42	42	42	42	42	42	42
L, Total Lost Time per Cycle [s]	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	7	7	6	17	17	0	12	12
g / C, Green / Cycle	0.17	0.17	0.14	0.42	0.42	0.01	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.08	0.13	0.11	0.15	0.15	0.00	0.09	0.05
s, saturation flow rate [veh/h]	1838	1717	1781	1870	1851	1781	3560	1589
c, Capacity [veh/h]	411	411	250	779	771	14	1011	451
d1, Uniform Delay [s]	15.75	16.47	17.37	8.43	8.43	20.77	11.86	11.32
k, delay calibration	0.13	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.67	1.69	1.76	0.83	0.84	9.53	0.53	0.52
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.37	0.54	0.76	0.36	0.36	0.49	0.32	0.17
d, Delay for Lane Group [s/veh]	16.42	18.16	19.13	9.26	9.27	30.29	12.39	11.84
Lane Group LOS	B	B	B	A	A	C	B	B
Critical Lane Group	No	Yes	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	1.20	1.91	1.63	1.48	1.47	0.10	1.05	0.50
50th-Percentile Queue Length [ft/ln]	29.95	47.64	40.69	36.95	36.70	2.46	26.14	12.60
95th-Percentile Queue Length [veh/ln]	2.16	3.43	2.93	2.66	2.64	0.18	1.88	0.91
95th-Percentile Queue Length [ft/ln]	53.91	85.75	73.24	66.51	66.07	4.42	47.05	22.69

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	16.42	16.42	16.42	18.16	18.16	18.16	19.13	9.26	9.27	30.29	12.39	11.84
Movement LOS	B	B	B	B	B	B	B	A	A	C	B	B
d_A, Approach Delay [s/veh]	16.42			18.16			11.74			12.59		
Approach LOS	B			B			B			B		
d_I, Intersection Delay [s/veh]	13.36											
Intersection LOS	B											
Intersection V/C	0.416											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	11.37	0.00	11.37
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.091	0.000	2.695
Crosswalk LOS	F	B	F	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	812	812	2294	2294
d_b, Bicycle Delay [s]	7.38	7.38	0.45	0.45
l_b,int, Bicycle LOS Score for Intersection	1.810	1.926	2.180	1.897
Bicycle LOS	A	A	B	A

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Scenario 2 Existing Saturday

Report File: H:\...\Existing SAT_LOS Details.pdf
1/11/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.005	0.0	A
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.005	0.0	A
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.076	10.9	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	WB Thru	0.426	18.8	B
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.303	11.8	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	0	0	429	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	108	0	0	117	0	0
Total Analysis Volume [veh/h]	434	0	0	466	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.20	0.00	16.65	10.79
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		13.72	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.005

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	0	0	429	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	108	0	0	117	0	0
Total Analysis Volume [veh/h]	434	0	0	466	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.20	0.00	16.65	10.79
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		13.72	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	10.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.076

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	353	4	0	426	0	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	353	4	0	426	0	46
Peak Hour Factor	0.9200	0.9200	1.0000	0.9200	1.0000	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	96	1	0	116	0	13
Total Analysis Volume [veh/h]	384	4	0	463	0	50
Pedestrian Volume [ped/h]	0		0		1	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.08
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	10.90
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.24
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	6.12
d_A, Approach Delay [s/veh]	0.00		0.00		10.90	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.60					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	18.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.426

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	100.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	18	173	22	102	157	64	61	115	15	16	111	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	173	22	102	157	64	61	115	15	16	111	70
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	47	6	28	43	17	17	31	4	4	30	19
Total Analysis Volume [veh/h]	20	188	24	111	171	70	66	125	16	17	121	76
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			1			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			1		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	L	C
C, Cycle Length [s]	45	45	45	45	45	45	45	45	45	45
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.00	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.00	2.90
g_i, Effective Green Time [s]	2	8	8	6	12	12	5	11	2	8
g / C, Green / Cycle	0.04	0.17	0.17	0.13	0.27	0.27	0.10	0.23	0.03	0.17
(v / s)_i Volume / Saturation Flow Rate	0.01	0.10	0.02	0.06	0.09	0.04	0.04	0.08	0.01	0.11
s, saturation flow rate [veh/h]	1781	1870	1580	1781	1870	1589	1781	1833	1781	1749
c, Capacity [veh/h]	72	320	270	240	496	422	181	432	62	296
d1, Uniform Delay [s]	21.01	17.24	15.75	18.01	13.40	12.74	18.92	14.28	21.22	17.55
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.04	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.77	4.67	0.39	0.52	1.13	0.51	0.46	2.09	0.86	5.17
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.28	0.59	0.09	0.46	0.34	0.17	0.36	0.33	0.27	0.67
d, Delay for Lane Group [s/veh]	21.78	21.91	16.13	18.53	14.53	13.24	19.37	16.37	22.08	22.72
Lane Group LOS	C	C	B	B	B	B	B	B	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.20	1.98	0.21	0.97	1.34	0.52	0.59	1.27	0.17	2.09
50th-Percentile Queue Length [ft/ln]	4.99	49.38	5.27	24.29	33.48	12.99	14.86	31.75	4.31	52.23
95th-Percentile Queue Length [veh/ln]	0.36	3.56	0.38	1.75	2.41	0.94	1.07	2.29	0.31	3.76
95th-Percentile Queue Length [ft/ln]	8.97	88.88	9.49	43.73	60.26	23.38	26.74	57.14	7.75	94.02

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	21.78	21.91	16.13	18.53	14.53	13.24	19.37	16.37	16.37	22.08	22.72	22.72
Movement LOS	C	C	B	B	B	B	B	B	B	C	C	C
d_A, Approach Delay [s/veh]	21.30			15.54			17.33			22.67		
Approach LOS	C			B			B			C		
d_I, Intersection Delay [s/veh]	18.75											
Intersection LOS	B											
Intersection V/C	0.426											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	12.82	12.82	12.82	12.82
I_p,int, Pedestrian LOS Score for Intersection	2.197	2.257	2.036	2.054
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1335	1335	1335	1335
d_b, Bicycle Delay [s]	2.48	2.48	2.48	2.48
I_b,int, Bicycle LOS Score for Intersection	1.942	2.140	1.901	1.913
Bicycle LOS	A	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	11.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.303

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	6	42	12	55	40	65	91	288	11	11	269	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	6	42	12	55	40	65	91	288	11	11	269	59
Peak Hour Factor	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	11	3	14	10	17	23	74	3	3	69	15
Total Analysis Volume [veh/h]	6	43	12	57	41	67	94	297	11	11	277	61
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	20.0	0.0	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	R
C, Cycle Length [s]	37	37	37	37	37	37	37	37
L, Total Lost Time per Cycle [s]	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	6	6	3	14	14	0	12	12
g / C, Green / Cycle	0.16	0.16	0.07	0.37	0.37	0.01	0.32	0.32
(v / s)_i Volume / Saturation Flow Rate	0.03	0.10	0.05	0.08	0.08	0.01	0.08	0.04
s, saturation flow rate [veh/h]	1818	1674	1781	1870	1847	1781	3560	1589
c, Capacity [veh/h]	392	393	125	698	689	22	1124	502
d1, Uniform Delay [s]	13.68	14.57	16.98	7.96	7.97	18.25	9.44	9.06
k, delay calibration	0.13	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.22	1.09	3.39	0.46	0.47	6.01	0.33	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.16	0.42	0.75	0.22	0.22	0.49	0.25	0.12
d, Delay for Lane Group [s/veh]	13.90	15.66	20.37	8.42	8.44	24.26	9.77	9.37
Lane Group LOS	B	B	C	A	A	C	A	A
Critical Lane Group	No	Yes	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.39	1.17	0.78	0.69	0.69	0.12	0.68	0.31
50th-Percentile Queue Length [ft/ln]	9.75	29.30	19.55	17.28	17.18	2.95	16.88	7.68
95th-Percentile Queue Length [veh/ln]	0.70	2.11	1.41	1.24	1.24	0.21	1.22	0.55
95th-Percentile Queue Length [ft/ln]	17.54	52.75	35.19	31.11	30.92	5.31	30.39	13.82

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	13.90	13.90	13.90	15.66	15.66	15.66	20.37	8.43	8.44	24.26	9.77	9.37
Movement LOS	B	B	B	B	B	B	C	A	A	C	A	A
d_A, Approach Delay [s/veh]	13.90			15.66			11.22			10.16		
Approach LOS	B			B			B			B		
d_I, Intersection Delay [s/veh]	11.76											
Intersection LOS	B											
Intersection V/C	0.303											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	9.15	0.00	9.15
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.004	0.000	2.596
Crosswalk LOS	F	B	F	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	918	918	2593	2593
d_b, Bicycle Delay [s]	5.42	5.42	1.63	1.63
l_b,int, Bicycle LOS Score for Intersection	1.660	1.832	1.891	1.848
Bicycle LOS	A	A	A	A

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201229.vistro
Scenario 4 Existing Saturday + Project

Report File: H:\...\Existing SAT+Proj_LOS Details.pdf
12/29/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	WB Left	0.251	29.8	D
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	WB Left	0.522	49.4	E
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.096	12.1	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	WB Left	0.525	21.2	C
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.380	13.2	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	29.8
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.251

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	39	41	80	45	42
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	480	39	41	509	45	42
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	130	11	11	138	12	11
Total Analysis Volume [veh/h]	522	42	45	553	49	46
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.04	0.01	0.25	0.09
d_M, Delay for Movement [s/veh]	0.00	0.00	8.74	0.00	29.79	18.00
Movement LOS	A	A	A	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.14	0.14	1.43	1.43
95th-Percentile Queue Length [ft/ln]	0.00	0.00	3.50	3.50	35.84	35.84
d_A, Approach Delay [s/veh]	0.00		0.66		24.08	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	2.13					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	49.4
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.522

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	399	0	0	429	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	43	71	80	45	86	77
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	442	71	80	474	86	77
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	120	19	22	129	23	21
Total Analysis Volume [veh/h]	480	77	87	515	93	84
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.09	0.01	0.52	0.15
d_M, Delay for Movement [s/veh]	0.00	0.00	8.88	0.00	49.43	35.67
Movement LOS	A	A	A	A	E	E
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.28	0.28	4.39	4.39
95th-Percentile Queue Length [ft/ln]	0.00	0.00	7.02	7.02	109.67	109.67
d_A, Approach Delay [s/veh]	0.00		1.28		42.90	
Approach LOS	A		A		E	
d_I, Intersection Delay [s/veh]	6.26					
Intersection LOS	E					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	12.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.096

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	353	4	0	426	0	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	110	4	0	131	0	4
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	463	8	0	557	0	50
Peak Hour Factor	0.9200	0.9200	1.0000	0.9200	1.0000	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	126	2	0	151	0	14
Total Analysis Volume [veh/h]	503	9	0	605	0	54
Pedestrian Volume [ped/h]	0		0		1	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.10
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	12.06
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.32
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	7.90
d_A, Approach Delay [s/veh]	0.00		0.00		12.06	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.56					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	21.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.525

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	100.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	18	173	22	102	157	64	61	115	15	16	111	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	65	0	41	64	26	23	0	0	0	0	26
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	238	22	143	221	90	84	115	15	16	111	96
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	65	6	39	60	24	23	31	4	4	30	26
Total Analysis Volume [veh/h]	20	259	24	155	240	98	91	125	16	17	121	104
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			1			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			1		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	L	C
C, Cycle Length [s]	53	53	53	53	53	53	53	53	53	53
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.00	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.00	2.90
g_i, Effective Green Time [s]	2	11	11	7	16	16	6	14	2	10
g / C, Green / Cycle	0.04	0.21	0.21	0.14	0.31	0.31	0.11	0.26	0.03	0.18
(v / s)_i Volume / Saturation Flow Rate	0.01	0.14	0.02	0.09	0.13	0.06	0.05	0.08	0.01	0.13
s, saturation flow rate [veh/h]	1781	1870	1582	1781	1870	1589	1781	1833	1781	1727
c, Capacity [veh/h]	70	391	331	241	571	486	200	483	61	321
d1, Uniform Delay [s]	24.95	19.40	16.97	21.88	14.79	13.74	22.21	15.70	25.17	20.38
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.04	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.82	5.19	0.25	1.07	1.35	0.56	0.60	1.60	0.91	5.60
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.29	0.66	0.07	0.64	0.42	0.20	0.46	0.29	0.28	0.70
d, Delay for Lane Group [s/veh]	25.77	24.59	17.22	22.94	16.14	14.30	22.81	17.30	26.09	25.98
Lane Group LOS	C	C	B	C	B	B	C	B	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.25	3.22	0.24	1.75	2.25	0.85	1.02	1.44	0.21	2.87
50th-Percentile Queue Length [ft/ln]	6.13	80.40	5.96	43.81	56.26	21.18	25.42	35.97	5.28	71.78
95th-Percentile Queue Length [veh/ln]	0.44	5.79	0.43	3.15	4.05	1.53	1.83	2.59	0.38	5.17
95th-Percentile Queue Length [ft/ln]	11.03	144.73	10.72	78.86	101.26	38.13	45.75	64.75	9.51	129.21

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.77	24.59	17.22	22.94	16.14	14.30	22.81	17.30	17.30	26.09	25.98	25.98
Movement LOS	C	C	B	C	B	B	C	B	B	C	C	C
d_A, Approach Delay [s/veh]	24.08			17.91			19.46			25.99		
Approach LOS	C			B			B			C		
d_I, Intersection Delay [s/veh]	21.21											
Intersection LOS	C											
Intersection V/C	0.525											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	16.76	16.76	16.76	16.76
I_p,int, Pedestrian LOS Score for Intersection	2.242	2.332	2.064	2.088
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1127	1127	1127	1127
d_b, Bicycle Delay [s]	5.08	5.08	5.08	5.08
I_b,int, Bicycle LOS Score for Intersection	2.060	2.373	1.942	1.959
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	13.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.380

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	6	42	12	55	40	65	91	288	11	11	269	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	29	0	35	39	0	0	0	0	26
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	6	42	12	84	40	100	130	288	11	11	269	85
Peak Hour Factor	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	11	3	22	10	26	34	74	3	3	69	22
Total Analysis Volume [veh/h]	6	43	12	87	41	103	134	297	11	11	277	88
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	20.0	0.0	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	R
C, Cycle Length [s]	40	40	40	40	40	40	40	40
L, Total Lost Time per Cycle [s]	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	7	7	4	15	15	0	12	12
g / C, Green / Cycle	0.19	0.19	0.10	0.38	0.38	0.01	0.29	0.29
(v / s)_i Volume / Saturation Flow Rate	0.03	0.14	0.08	0.08	0.08	0.01	0.08	0.06
s, saturation flow rate [veh/h]	1822	1630	1781	1870	1847	1781	3560	1589
c, Capacity [veh/h]	439	428	178	712	703	21	1042	465
d1, Uniform Delay [s]	13.82	15.41	17.72	8.46	8.46	19.86	10.97	10.71
k, delay calibration	0.13	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.17	1.62	2.45	0.44	0.45	7.19	0.39	0.57
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.14	0.54	0.75	0.22	0.22	0.52	0.27	0.19
d, Delay for Lane Group [s/veh]	14.00	17.03	20.17	8.90	8.91	27.05	11.36	11.28
Lane Group LOS	B	B	C	A	A	C	B	B
Critical Lane Group	No	Yes	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.41	1.85	1.16	0.77	0.76	0.13	0.81	0.54
50th-Percentile Queue Length [ft/ln]	10.36	46.23	29.11	19.26	19.12	3.32	20.30	13.54
95th-Percentile Queue Length [veh/ln]	0.75	3.33	2.10	1.39	1.38	0.24	1.46	0.98
95th-Percentile Queue Length [ft/ln]	18.65	83.21	52.39	34.67	34.42	5.97	36.55	24.38

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.00	14.00	14.00	17.03	17.03	17.03	20.17	8.91	8.91	27.05	11.36	11.28
Movement LOS	B	B	B	B	B	B	C	A	A	C	B	B
d_A, Approach Delay [s/veh]	14.00			17.03			12.32			11.80		
Approach LOS	B			B			B			B		
d_I, Intersection Delay [s/veh]	13.22											
Intersection LOS	B											
Intersection V/C	0.380											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	10.65	0.00	10.65
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.054	0.000	2.654
Crosswalk LOS	F	B	F	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	844	844	2382	2382
d_b, Bicycle Delay [s]	6.74	6.74	0.74	0.74
l_b,int, Bicycle LOS Score for Intersection	1.660	1.941	1.924	1.870
Bicycle LOS	A	A	A	A

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Report File: H:\...\2035 PM_LOS Details.pdf

Scenario 5 2035 PM
12/31/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.009	0.0	A
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.009	0.0	A
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.055	11.0	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	NB Left	0.526	20.1	C
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.486	18.7	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.009

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	721	0	0	848	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	721	0	0	848	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	196	0	0	230	0	0
Total Analysis Volume [veh/h]	784	0	0	922	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	9.34	0.00	26.68	10.93
Movement LOS	A	A	A	A	D	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		18.80	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.009

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	721	0	0	848	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	721	0	0	848	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	196	0	0	230	0	0
Total Analysis Volume [veh/h]	784	0	0	922	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	9.34	0.00	26.68	10.93
Movement LOS	A	A	A	A	D	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		18.80	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	11.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.055

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	688	5	0	848	0	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	688	5	0	848	0	33
Peak Hour Factor	0.9500	0.9500	1.0000	0.9500	1.0000	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	181	1	0	223	0	9
Total Analysis Volume [veh/h]	724	5	0	893	0	35
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.06
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	11.03
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.18
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	4.38
d_A, Approach Delay [s/veh]	0.00		0.00		11.03	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.23					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	20.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.526

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	250.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	11	446	55	234	391	113	117	243	25	20	112	89
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	446	55	234	391	113	117	243	25	20	112	89
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	121	15	64	106	31	32	66	7	5	30	24
Total Analysis Volume [veh/h]	12	485	60	254	425	123	127	264	27	22	122	97
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	1			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street	0			0			1			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	2			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	C
C, Cycle Length [s]	57	57	57	57	57	57	57	57	57	57	57	57
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.90	4.00	4.90	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.90	2.00	2.90	2.90
g_i, Effective Green Time [s]	1	13	13	10	22	22	7	12	12	2	8	8
g / C, Green / Cycle	0.02	0.24	0.24	0.17	0.38	0.38	0.12	0.22	0.22	0.04	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.01	0.14	0.04	0.14	0.12	0.08	0.07	0.08	0.08	0.01	0.06	0.07
s, saturation flow rate [veh/h]	1781	3560	1561	1781	3560	1589	1781	1870	1810	1781	1870	1610
c, Capacity [veh/h]	44	838	367	310	1370	611	217	403	390	74	254	218
d1, Uniform Delay [s]	27.43	19.39	17.40	22.79	12.31	11.75	23.79	19.13	19.15	26.63	22.77	22.90
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.52	0.04	0.22	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.24	1.75	0.57	2.07	0.35	0.44	0.94	2.66	2.79	0.82	2.50	3.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.27	0.58	0.16	0.82	0.31	0.20	0.59	0.36	0.37	0.30	0.45	0.48
d, Delay for Lane Group [s/veh]	28.67	21.13	17.97	24.86	12.67	12.20	24.73	21.79	21.94	27.44	25.27	26.27
Lane Group LOS	C	C	B	C	B	B	C	C	C	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.17	2.80	0.64	3.21	1.73	0.99	1.57	1.83	1.80	0.29	1.48	1.43
50th-Percentile Queue Length [ft/ln]	4.19	70.11	15.90	80.31	43.29	24.87	39.26	45.65	44.97	7.29	37.07	35.80
95th-Percentile Queue Length [veh/ln]	0.30	5.05	1.14	5.78	3.12	1.79	2.83	3.29	3.24	0.53	2.67	2.58
95th-Percentile Queue Length [ft/ln]	7.53	126.20	28.61	144.57	77.92	44.76	70.66	82.17	80.95	13.13	66.73	64.45

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.67	21.13	17.97	24.86	12.67	12.20	24.73	21.85	21.94	27.44	25.34	26.27
Movement LOS	C	C	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	20.96			16.46			22.73			25.91		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	20.13											
Intersection LOS	C											
Intersection V/C	0.526											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	18.65	18.65	18.65	18.65
l_p,int, Pedestrian LOS Score for Intersection	2.595	2.673	2.406	2.434
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1049	1049	1049	1049
d_b, Bicycle Delay [s]	6.47	6.46	6.46	6.46
l_b,int, Bicycle LOS Score for Intersection	2.019	2.221	1.904	1.758
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	18.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.486

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	135	294	100	78	176	104	168	1283	90	38	757	53
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	135	294	100	78	176	104	168	1283	90	38	757	53
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	36	77	26	21	46	27	44	338	24	10	199	14
Total Analysis Volume [veh/h]	142	309	105	82	185	109	177	1351	95	40	797	56
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street [	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			1			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	6.00	6.00	6.00	6.00	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	4.00	4.00	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	17	17	17	17	17	17	9	34	34	2	27	27
g / C, Green / Cycle	0.24	0.24	0.24	0.24	0.24	0.24	0.12	0.48	0.48	0.03	0.39	0.39
(v / s)_i Volume / Saturation Flow Rate	0.13	0.11	0.12	0.08	0.08	0.09	0.10	0.27	0.27	0.02	0.16	0.04
s, saturation flow rate [veh/h]	1085	1870	1711	972	1870	1646	1781	3560	1803	1781	5094	1589
c, Capacity [veh/h]	256	453	415	211	453	399	221	1722	872	56	1992	622
d1, Uniform Delay [s]	29.75	22.74	22.79	30.22	21.92	22.02	29.87	12.80	12.82	33.64	15.41	13.48
k, delay calibration	0.13	0.13	0.13	0.17	0.17	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.26	0.93	1.04	1.77	0.67	0.81	2.55	0.82	1.63	5.94	0.38	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.55	0.47	0.48	0.39	0.34	0.35	0.80	0.56	0.56	0.71	0.40	0.09
d, Delay for Lane Group [s/veh]	32.01	23.67	23.83	31.99	22.59	22.83	32.43	13.63	14.45	39.57	15.79	13.66
Lane Group LOS	C	C	C	C	C	C	C	B	B	D	B	B
Critical Lane Group	Yes	No	No	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.42	2.99	2.79	1.39	2.06	1.92	2.94	4.90	5.18	0.75	2.89	0.55
50th-Percentile Queue Length [ft/ln]	60.45	74.70	69.87	34.82	51.45	47.93	73.52	122.55	129.52	18.66	72.32	13.79
95th-Percentile Queue Length [veh/ln]	4.35	5.38	5.03	2.51	3.70	3.45	5.29	8.53	8.91	1.34	5.21	0.99
95th-Percentile Queue Length [ft/ln]	108.80	134.47	125.76	62.68	92.61	86.27	132.34	213.32	222.84	33.58	130.18	24.81

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	32.01	23.72	23.83	31.99	22.63	22.83	32.43	13.87	14.45	39.57	15.79	13.66
Movement LOS	C	C	C	C	C	C	C	B	B	D	B	B
d_A, Approach Delay [s/veh]	25.86			24.73			15.92			16.72		
Approach LOS	C			C			B			B		
d_I, Intersection Delay [s/veh]	18.69											
Intersection LOS	B											
Intersection V/C	0.486											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	24.88	0.00	24.88
I_p,int, Pedestrian LOS Score for Intersection	0.000	2.465	0.000	3.125
Crosswalk LOS	F	B	F	C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	485	485	1371	1371
d_b, Bicycle Delay [s]	20.08	20.08	3.47	3.47
I_b,int, Bicycle LOS Score for Intersection	2.018	1.870	2.452	2.051
Bicycle LOS	B	A	B	B

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

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Scenario 7 2035 PM + Project
12/31/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	WB Left	0.104	34.3	D
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	WB Left	0.216	41.2	E
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.060	11.4	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	NB Left	0.558	20.8	C
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.487	19.1	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	34.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.104

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	721	0	0	848	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	21	21	24	46	13	10
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	742	21	24	894	13	10
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	202	6	7	243	4	3
Total Analysis Volume [veh/h]	807	23	26	972	14	11
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.03	0.01	0.10	0.02
d_M, Delay for Movement [s/veh]	0.00	0.00	9.67	0.00	34.34	13.62
Movement LOS	A	A	A	A	D	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.10	0.05	0.41	0.41
95th-Percentile Queue Length [ft/ln]	0.00	0.00	2.52	1.26	10.35	10.35
d_A, Approach Delay [s/veh]	0.00		0.25		25.22	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	0.48					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	41.2
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.216

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	721	0	0	848	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	22	40	46	13	24	20
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	743	40	46	861	24	20
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	202	11	13	234	7	5
Total Analysis Volume [veh/h]	808	43	50	936	26	22
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.06	0.01	0.22	0.04
d_M, Delay for Movement [s/veh]	0.00	0.00	9.91	0.00	41.25	17.60
Movement LOS	A	A	A	A	E	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.20	0.10	0.97	0.97
95th-Percentile Queue Length [ft/ln]	0.00	0.00	5.10	2.55	24.20	24.20
d_A, Approach Delay [s/veh]	0.00		0.50		30.41	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	1.04					
Intersection LOS	E					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	11.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.060

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	688	5	0	848	0	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	61	2	0	37	0	1
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	749	7	0	885	0	34
Peak Hour Factor	0.9500	0.9500	1.0000	0.9500	1.0000	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	197	2	0	233	0	9
Total Analysis Volume [veh/h]	788	7	0	932	0	36
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.06
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	11.36
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.19
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	4.76
d_A, Approach Delay [s/veh]	0.00		0.00		11.36	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.23					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	20.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.558

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	250.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	11	446	55	234	391	113	117	243	25	20	112	89
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	42	0	11	18	8	11	0	0	0	0	10
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	488	55	245	409	121	128	243	25	20	112	99
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	133	15	67	111	33	35	66	7	5	30	27
Total Analysis Volume [veh/h]	12	530	60	266	445	132	139	264	27	22	122	108
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	1			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			1			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			2		
v_ci, Inbound Pedestrian Volume crossing minor street [	2			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	2			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.90	4.00	4.90	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.90	2.00	2.90	2.90
g_i, Effective Green Time [s]	1	15	15	11	24	24	7	13	13	2	8	8
g / C, Green / Cycle	0.02	0.25	0.25	0.18	0.40	0.40	0.12	0.21	0.21	0.04	0.13	0.13
(v / s)_i Volume / Saturation Flow Rate	0.01	0.15	0.04	0.15	0.12	0.08	0.08	0.08	0.08	0.01	0.06	0.07
s, saturation flow rate [veh/h]	1781	3560	1562	1781	3560	1589	1781	1870	1809	1781	1870	1595
c, Capacity [veh/h]	44	882	387	321	1436	641	216	394	382	74	245	209
d1, Uniform Delay [s]	28.60	19.85	17.55	23.60	12.15	11.59	25.02	20.18	20.20	27.77	24.06	24.21
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.52	0.04	0.22	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.25	1.81	0.51	2.14	0.34	0.43	1.21	2.81	2.95	0.83	3.02	4.17
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.27	0.60	0.16	0.83	0.31	0.21	0.64	0.37	0.38	0.30	0.49	0.53
d, Delay for Lane Group [s/veh]	29.85	21.66	18.06	25.73	12.48	12.03	26.22	22.99	23.15	28.60	27.08	28.38
Lane Group LOS	C	C	B	C	B	B	C	C	C	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.18	3.20	0.65	3.54	1.85	1.09	1.83	1.93	1.90	0.31	1.67	1.61
50th-Percentile Queue Length [ft/ln]	4.39	80.08	16.29	88.40	46.20	27.14	45.79	48.33	47.59	7.66	41.77	40.26
95th-Percentile Queue Length [veh/ln]	0.32	5.77	1.17	6.36	3.33	1.95	3.30	3.48	3.43	0.55	3.01	2.90
95th-Percentile Queue Length [ft/ln]	7.90	144.14	29.32	159.12	83.16	48.85	82.42	87.00	85.66	13.79	75.19	72.46

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	29.85	21.66	18.06	25.73	12.48	12.03	26.22	23.06	23.15	28.60	27.11	28.38
Movement LOS	C	C	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	21.46			16.59			24.09			27.79		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	20.81											
Intersection LOS	C											
Intersection V/C	0.558											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	19.82	19.82	19.82	19.82
I_p,int, Pedestrian LOS Score for Intersection	2.608	2.693	2.413	2.441
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1007	1007	1007	1007
d_b, Bicycle Delay [s]	7.36	7.35	7.35	7.35
I_b,int, Bicycle LOS Score for Intersection	2.056	2.255	1.914	1.768
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	19.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.487

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	135	294	100	78	176	104	168	1283	90	38	757	53
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	9	0	9	30	0	0	0	0	12
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	135	294	100	87	176	113	198	1283	90	38	757	65
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	36	77	26	23	46	30	52	338	24	10	199	17
Total Analysis Volume [veh/h]	142	309	105	92	185	119	208	1351	95	40	797	68
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing minor street [	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			1			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	6.00	6.00	6.00	6.00	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	4.00	4.00	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	17	17	17	17	17	17	10	34	34	2	26	26
g / C, Green / Cycle	0.24	0.24	0.24	0.24	0.24	0.24	0.14	0.48	0.48	0.03	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.13	0.11	0.12	0.09	0.08	0.09	0.12	0.27	0.27	0.02	0.16	0.04
s, saturation flow rate [veh/h]	1075	1870	1711	972	1870	1634	1781	3560	1803	1781	5094	1589
c, Capacity [veh/h]	251	453	415	211	453	396	254	1722	872	56	1898	592
d1, Uniform Delay [s]	30.00	22.74	22.79	30.56	22.00	22.09	29.19	12.80	12.82	33.64	16.36	14.42
k, delay calibration	0.13	0.13	0.13	0.17	0.17	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.39	0.93	1.04	2.15	0.71	0.87	2.50	0.82	1.63	5.94	0.43	0.25
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.56	0.47	0.48	0.44	0.35	0.37	0.82	0.56	0.56	0.71	0.42	0.11
d, Delay for Lane Group [s/veh]	32.39	23.67	23.83	32.72	22.70	22.96	31.68	13.63	14.45	39.57	16.79	14.67
Lane Group LOS	C	C	C	C	C	C	C	B	B	D	B	B
Critical Lane Group	Yes	No	No	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.44	2.99	2.79	1.59	2.14	1.98	3.43	4.90	5.18	0.75	3.01	0.70
50th-Percentile Queue Length [ft/ln]	60.93	74.71	69.87	39.72	53.62	49.58	85.69	122.54	129.54	18.66	75.30	17.58
95th-Percentile Queue Length [veh/ln]	4.39	5.38	5.03	2.86	3.86	3.57	6.17	8.53	8.91	1.34	5.42	1.27
95th-Percentile Queue Length [ft/ln]	109.67	134.47	125.77	71.50	96.52	89.25	154.24	213.31	222.87	33.58	135.54	31.64

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	32.39	23.72	23.83	32.72	22.74	22.96	31.68	13.87	14.45	39.57	16.79	14.67
Movement LOS	C	C	C	C	C	C	C	B	B	D	B	B
d_A, Approach Delay [s/veh]	25.95			25.12			16.14			17.64		
Approach LOS	C			C			B			B		
d_I, Intersection Delay [s/veh]	19.09											
Intersection LOS	B											
Intersection V/C	0.487											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	24.88	0.00	24.88
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.477	0.000	3.141
Crosswalk LOS	F	B	F	C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	485	485	1371	1371
d_b, Bicycle Delay [s]	20.08	20.08	3.47	3.47
l_b,int, Bicycle LOS Score for Intersection	2.018	1.886	2.469	2.057
Bicycle LOS	B	A	B	B

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Scenario 6 2035 Saturday

Report File: H:\...\2035 SAT_LOS Details.pdf
12/31/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.008	0.0	A
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	SB Thru	0.008	0.0	A
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.074	10.8	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	WB Left	0.492	19.6	B
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.413	16.5	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	632	0	0	731	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	632	0	0	731	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	172	0	0	199	0	0
Total Analysis Volume [veh/h]	687	0	0	795	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.99	0.00	22.03	10.52
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		16.28	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	632	0	0	731	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	632	0	0	731	0	0
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	172	0	0	199	0	0
Total Analysis Volume [veh/h]	687	0	0	795	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.99	0.00	22.03	10.52
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		16.28	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	10.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.074

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	586	4	0	728	0	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	586	4	0	728	0	46
Peak Hour Factor	0.9200	0.9200	1.0000	0.9200	1.0000	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	159	1	0	198	0	13
Total Analysis Volume [veh/h]	637	4	0	791	0	50
Pedestrian Volume [ped/h]	0		0		1	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.07
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	10.77
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.24
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	6.00
d_A, Approach Delay [s/veh]	0.00		0.00		10.77	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.36					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	19.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.492

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	250.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	20	331	43	241	298	86	110	176	58	18	91	96
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	331	43	241	298	86	110	176	58	18	91	96
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	90	12	65	81	23	30	48	16	5	25	26
Total Analysis Volume [veh/h]	22	360	47	262	324	93	120	191	63	20	99	104
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			1			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			1		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	C
C, Cycle Length [s]	53	53	53	53	53	53	53	53	53	53	53	53
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.90	4.00	4.90	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.90	2.00	2.90	2.90
g_i, Effective Green Time [s]	2	10	10	10	18	18	7	12	12	2	8	8
g / C, Green / Cycle	0.04	0.19	0.19	0.18	0.33	0.33	0.13	0.23	0.23	0.04	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.01	0.10	0.03	0.15	0.09	0.06	0.07	0.07	0.07	0.01	0.05	0.07
s, saturation flow rate [veh/h]	1781	3560	1584	1781	3560	1589	1781	1870	1716	1781	1870	1586
c, Capacity [veh/h]	76	678	302	323	1172	523	223	433	398	70	272	231
d1, Uniform Delay [s]	24.81	19.48	18.05	21.02	13.24	12.78	21.93	16.96	17.00	24.95	20.60	20.88
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.52	0.04	0.22	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.78	1.77	0.65	1.90	0.35	0.44	0.75	1.86	2.12	0.83	1.65	2.78
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.29	0.53	0.16	0.81	0.28	0.18	0.54	0.30	0.31	0.29	0.36	0.45
d, Delay for Lane Group [s/veh]	25.59	21.26	18.70	22.91	13.58	13.22	22.67	18.81	19.12	25.78	22.25	23.66
Lane Group LOS	C	C	B	C	B	B	C	B	B	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.27	1.99	0.50	3.01	1.32	0.76	1.34	1.41	1.36	0.25	1.15	1.27
50th-Percentile Queue Length [ft/ln]	6.70	49.77	12.40	75.30	32.88	19.05	33.55	35.35	34.10	6.14	28.65	31.63
95th-Percentile Queue Length [veh/ln]	0.48	3.58	0.89	5.42	2.37	1.37	2.42	2.54	2.45	0.44	2.06	2.28
95th-Percentile Queue Length [ft/ln]	12.06	89.59	22.32	135.54	59.19	34.28	60.39	63.62	61.37	11.05	51.57	56.94

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.59	21.26	18.70	22.91	13.58	13.22	22.67	18.91	19.12	25.78	22.25	23.66
Movement LOS	C	C	B	C	B	B	C	B	B	C	C	C
d_A, Approach Delay [s/veh]	21.20			17.13			20.15			23.23		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	19.62											
Intersection LOS	B											
Intersection V/C	0.492											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	16.79	16.79	16.79	16.79
l_p,int, Pedestrian LOS Score for Intersection	2.559	2.629	2.385	2.411
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1126	1126	1126	1126
d_b, Bicycle Delay [s]	5.10	5.10	5.10	5.10
l_b,int, Bicycle LOS Score for Intersection	1.914	2.120	1.868	1.744
Bicycle LOS	A	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	16.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.413

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	103	206	135	68	134	123	138	1006	103	56	712	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	206	135	68	134	123	138	1006	103	56	712	44
Peak Hour Factor	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	53	35	18	35	32	36	259	27	14	184	11
Total Analysis Volume [veh/h]	106	212	139	70	138	127	142	1037	106	58	734	45
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	58	58	58	58	58	58	58	58	58	58	58	58
L, Total Lost Time per Cycle [s]	6.00	6.00	6.00	6.00	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	4.00	4.00	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	14	14	14	14	14	14	6	25	25	2	21	21
g / C, Green / Cycle	0.24	0.24	0.24	0.24	0.24	0.24	0.10	0.43	0.43	0.04	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.10	0.10	0.10	0.07	0.07	0.08	0.08	0.21	0.21	0.03	0.14	0.03
s, saturation flow rate [veh/h]	1114	1870	1627	1029	1870	1589	1781	3560	1783	1781	5094	1589
c, Capacity [veh/h]	280	445	387	247	445	378	185	1519	760	76	1860	580
d1, Uniform Delay [s]	23.70	18.70	18.78	24.16	18.20	18.32	25.32	12.14	12.14	27.50	13.67	12.04
k, delay calibration	0.13	0.13	0.13	0.17	0.17	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.01	0.74	0.91	0.95	0.60	0.79	2.51	0.75	1.49	5.85	0.40	0.16
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.38	0.41	0.43	0.28	0.31	0.34	0.77	0.50	0.50	0.76	0.39	0.08
d, Delay for Lane Group [s/veh]	24.72	19.44	19.69	25.11	18.80	19.11	27.83	12.89	13.64	33.35	14.06	12.20
Lane Group LOS	C	B	B	C	B	B	C	B	B	C	B	B
Critical Lane Group	No	No	Yes	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.36	2.01	1.84	0.91	1.47	1.38	1.91	3.23	3.40	0.87	2.16	0.37
50th-Percentile Queue Length [ft/ln]	34.03	50.21	45.97	22.83	36.76	34.42	47.75	80.83	84.93	21.85	54.09	9.15
95th-Percentile Queue Length [veh/ln]	2.45	3.62	3.31	1.64	2.65	2.48	3.44	5.82	6.11	1.57	3.89	0.66
95th-Percentile Queue Length [ft/ln]	61.26	90.38	82.75	41.09	66.18	61.96	85.95	145.49	152.87	39.33	97.36	16.47

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.72	19.47	19.69	25.11	18.80	19.11	27.83	13.09	13.64	33.35	14.06	12.20
Movement LOS	C	B	B	C	B	B	C	B	B	C	B	B
d_A, Approach Delay [s/veh]	20.76			20.24			14.76			15.30		
Approach LOS	C			C			B			B		
d_I, Intersection Delay [s/veh]	16.49											
Intersection LOS	B											
Intersection V/C	0.413											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	19.00	0.00	19.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.418	0.000	3.054
Crosswalk LOS	F	B	F	C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	587	587	1658	1658
d_b, Bicycle Delay [s]	14.45	14.45	0.85	0.85
l_b,int, Bicycle LOS Score for Intersection	1.937	1.836	2.266	2.020
Bicycle LOS	A	A	B	B

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Scenario 8 2035 Saturday + Project

Report File: H:\...\2035 SAT+Proj_LOS Details.pdf
12/31/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	S. Peach Avenue & Regional Park Driveway	Two-way stop	HCM 6th Edition	WB Left	0.361	43.9	E
2	S. Peach Avenue & Soccer Complex Driveway	Two-way stop	HCM 6th Edition	WB Left	0.784	108.8	F
3	S. Peach Avenue & E. Geary Street	Two-way stop	HCM 6th Edition	WB Right	0.088	11.4	B
4	S. Peach Avenue & E. Church Street	Signalized	HCM 6th Edition	WB Right	0.577	21.2	C
5	S. Peach Avenue & E. Jensen Avenue	Signalized	HCM 6th Edition	WB Left	0.411	17.6	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: S. Peach Avenue & Regional Park Driveway

Control Type:	Two-way stop	Delay (sec / veh):	43.9
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.361

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Regional Park Driveway	
Base Volume Input [veh/h]	632	0	0	731	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	39	41	80	45	42
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	713	39	41	811	45	42
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	194	11	11	220	12	11
Total Analysis Volume [veh/h]	775	42	45	882	49	46
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.06	0.01	0.36	0.08
d_M, Delay for Movement [s/veh]	0.00	0.00	9.73	0.00	43.85	23.44
Movement LOS	A	A	A	A	E	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.18	0.09	2.06	2.06
95th-Percentile Queue Length [ft/ln]	0.00	0.00	4.42	2.21	51.54	51.54
d_A, Approach Delay [s/veh]	0.00		0.47		33.97	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	1.99					
Intersection LOS	E					

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Two-way stop	Delay (sec / veh):	108.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.784

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	632	0	0	731	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	43	71	80	45	86	77
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	675	71	80	776	86	77
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	183	19	22	211	23	21
Total Analysis Volume [veh/h]	734	77	87	843	93	84
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.11	0.01	0.78	0.14
d_M, Delay for Movement [s/veh]	0.00	0.00	9.97	0.00	108.75	84.44
Movement LOS	A	A	A	A	F	F
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.36	0.18	7.31	7.31
95th-Percentile Queue Length [ft/ln]	0.00	0.00	8.98	4.49	182.67	182.67
d_A, Approach Delay [s/veh]	0.00		0.93		97.21	
Approach LOS	A		A		F	
d_I, Intersection Delay [s/veh]	9.42					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 3: S. Peach Avenue & E. Geary Street

Control Type:	Two-way stop	Delay (sec / veh):	11.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.088

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		E. Geary Street	
Base Volume Input [veh/h]	586	4	0	728	0	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	110	4	0	131	0	4
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	696	8	0	859	0	50
Peak Hour Factor	0.9200	0.9200	1.0000	0.9200	1.0000	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	189	2	0	233	0	14
Total Analysis Volume [veh/h]	757	9	0	934	0	54
Pedestrian Volume [ped/h]	0		0		1	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.09
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	11.43
Movement LOS	A	A		A		B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.29
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	7.21
d_A, Approach Delay [s/veh]	0.00		0.00		11.43	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.35					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 4: S. Peach Avenue & E. Church Street

Control Type:	Signalized	Delay (sec / veh):	21.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.577

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	1	1	0	0	1	0	0
Entry Pocket Length [ft]	250.00	100.00	250.00	200.00	100.00	220.00	130.00	100.00	100.00	115.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Church Avenue			E. Church Avenue		
Base Volume Input [veh/h]	20	331	43	241	298	86	110	176	58	18	91	96
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	65	0	41	64	26	23	0	0	0	0	26
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	396	43	282	362	112	133	176	58	18	91	122
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	108	12	77	98	30	36	48	16	5	25	33
Total Analysis Volume [veh/h]	22	430	47	307	393	122	145	191	63	20	99	133
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			1			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			1		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	8	8	0	8	8	0	8	8	0	8	8	0
Maximum Green [s]	20	30	0	20	30	0	20	30	0	20	30	0
Amber [s]	3.9	4.3	0.0	3.9	4.3	0.0	3.0	3.9	0.0	3.0	3.9	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	2.0	5.5	0.0	2.0	5.5	0.0	2.0	6.5	0.0	2.0	4.9	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	16	0	0	14	0	0	21	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.9	3.3	0.0	2.9	3.3	0.0	2.0	2.9	0.0	2.0	2.9	0.0
Minimum Recall	No	Yes		No	Yes		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	C
C, Cycle Length [s]	59	59	59	59	59	59	59	59	59	59	59	59
L, Total Lost Time per Cycle [s]	4.90	5.30	5.30	4.90	5.30	5.30	4.00	4.90	4.90	4.00	4.90	4.90
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.90	3.30	3.30	2.90	3.30	3.30	2.00	2.90	2.90	2.00	2.90	2.90
g_i, Effective Green Time [s]	2	12	12	12	22	22	7	13	13	2	8	8
g / C, Green / Cycle	0.04	0.21	0.21	0.20	0.37	0.37	0.12	0.22	0.22	0.04	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.01	0.12	0.03	0.17	0.11	0.08	0.08	0.07	0.07	0.01	0.05	0.08
s, saturation flow rate [veh/h]	1781	3560	1585	1781	3560	1589	1781	1870	1715	1781	1870	1586
c, Capacity [veh/h]	74	745	332	364	1325	591	221	416	382	69	256	217
d1, Uniform Delay [s]	27.30	20.88	18.92	22.45	13.01	12.54	24.53	19.08	19.13	27.45	23.09	23.87
k, delay calibration	0.04	0.30	0.30	0.04	0.30	0.30	0.04	0.52	0.52	0.04	0.22	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.82	1.95	0.53	2.07	0.34	0.47	1.24	2.06	2.34	0.86	1.94	5.59
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.30	0.58	0.14	0.84	0.30	0.21	0.66	0.31	0.32	0.29	0.39	0.61
d, Delay for Lane Group [s/veh]	28.12	22.82	19.45	24.53	13.36	13.01	25.77	21.14	21.46	28.32	25.03	29.46
Lane Group LOS	C	C	B	C	B	B	C	C	C	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.30	2.64	0.53	3.94	1.68	1.05	1.87	1.61	1.55	0.27	1.30	1.96
50th-Percentile Queue Length [ft/ln]	7.50	66.06	13.32	98.59	42.10	26.18	46.75	40.22	38.64	6.86	32.61	48.93
95th-Percentile Queue Length [veh/ln]	0.54	4.76	0.96	7.10	3.03	1.89	3.37	2.90	2.78	0.49	2.35	3.52
95th-Percentile Queue Length [ft/ln]	13.50	118.90	23.97	177.45	75.78	47.13	84.16	72.39	69.56	12.36	58.69	88.07

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.12	22.82	19.45	24.53	13.36	13.01	25.77	21.24	21.46	28.32	25.03	29.46
Movement LOS	C	C	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	22.74			17.48			22.92			27.63		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	21.21											
Intersection LOS	C											
Intersection V/C	0.577											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	19.31	19.31	19.31	19.31
l_p,int, Pedestrian LOS Score for Intersection	2.587	2.678	2.401	2.431
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1025	1025	1025	1025
d_b, Bicycle Delay [s]	6.97	6.97	6.97	6.97
l_b,int, Bicycle LOS Score for Intersection	1.971	2.238	1.889	1.768
Bicycle LOS	A	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: S. Peach Avenue & E. Jensen Avenue

Control Type:	Signalized	Delay (sec / veh):	17.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.411

Intersection Setup

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	125.00	100.00	100.00	266.00	100.00	1000.0
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			No			Yes		

Volumes

Name	S. Peach Avenue			S. Peach Avenue			E. Jensen Avenue			E. Jensen Avenue		
Base Volume Input [veh/h]	103	206	135	68	134	123	138	1006	103	56	712	44
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	29	0	35	39	0	0	0	0	26
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	206	135	97	134	158	177	1006	103	56	712	70
Peak Hour Factor	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700	0.9700
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	53	35	25	35	41	46	259	27	14	184	18
Total Analysis Volume [veh/h]	106	212	139	100	138	163	182	1037	106	58	734	72
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing major street [	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing minor stree	1			0			0			1		
v_ci, Inbound Pedestrian Volume crossing minor street [	1			0			0			1		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	9.00

Phasing & Timing

Control Type	Permis	Permis	Permis	Permis	Permis	Permis	Protect	Permis	Permis	Protect	Permis	Permis
Signal Group	0	6	0	0	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	0	7	0	0	7	0	4	12	0	4	12	0
Maximum Green [s]	0	17	0	0	17	0	16	48	0	12	48	0
Amber [s]	0.0	5.0	0.0	0.0	5.0	0.0	3.0	5.0	0.0	3.0	5.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Split [s]	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Extension [s]	0.0	3.5	0.0	0.0	4.2	0.0	2.0	5.6	0.0	2.0	5.6	0.0
Walk [s]	0	7	0	0	0	0	0	0	0	0	7	0
Pedestrian Clearance [s]	0	18	0	0	0	0	0	0	0	0	20	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	4.0	0.0	0.0	4.0	0.0	3.0	4.0	0.0	3.0	4.0	0.0
Minimum Recall		No			No		No	Yes		No	Yes	
Maximum Recall		No			No		No	No		No	No	
Pedestrian Recall		No			No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	6.00	6.00	6.00	6.00	6.00	6.00	5.00	6.00	6.00	5.00	6.00	6.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	4.00	4.00	4.00	4.00	4.00	4.00	3.00	4.00	4.00	3.00	4.00	4.00
g_i, Effective Green Time [s]	15	15	15	15	15	15	8	25	25	2	20	20
g / C, Green / Cycle	0.26	0.26	0.26	0.26	0.26	0.26	0.13	0.42	0.42	0.04	0.33	0.33
(v / s)_i Volume / Saturation Flow Rate	0.10	0.10	0.10	0.10	0.07	0.10	0.10	0.21	0.21	0.03	0.14	0.05
s, saturation flow rate [veh/h]	1078	1870	1627	1029	1870	1589	1781	3560	1783	1781	5094	1589
c, Capacity [veh/h]	270	477	415	263	477	406	230	1491	747	74	1688	527
d1, Uniform Delay [s]	24.60	18.41	18.49	24.57	17.91	18.49	25.26	12.85	12.85	28.39	15.62	14.01
k, delay calibration	0.13	0.13	0.13	0.17	0.17	0.17	0.04	0.31	0.31	0.04	0.31	0.31
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.12	0.62	0.76	1.38	0.51	0.98	2.31	0.79	1.57	6.41	0.52	0.34
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, 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
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.39	0.39	0.40	0.38	0.29	0.40	0.79	0.51	0.51	0.78	0.43	0.14
d, Delay for Lane Group [s/veh]	25.72	19.02	19.24	25.94	18.42	19.47	27.57	13.64	14.43	34.80	16.14	14.35
Lane Group LOS	C	B	B	C	B	B	C	B	B	C	B	B
Critical Lane Group	No	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.42	2.02	1.85	1.36	1.48	1.83	2.49	3.44	3.61	0.91	2.43	0.67
50th-Percentile Queue Length [ft/ln]	35.62	50.46	46.15	34.10	36.96	45.77	62.30	85.94	90.16	22.81	60.64	16.71
95th-Percentile Queue Length [veh/ln]	2.56	3.63	3.32	2.45	2.66	3.30	4.49	6.19	6.49	1.64	4.37	1.20
95th-Percentile Queue Length [ft/ln]	64.11	90.83	83.08	61.37	66.52	82.39	112.15	154.68	162.28	41.07	109.15	30.08

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.72	19.05	19.24	25.94	18.42	19.47	27.57	13.85	14.43	34.80	16.14	14.35
Movement LOS	C	B	B	C	B	B	C	B	B	C	B	B
d_A, Approach Delay [s/veh]	20.66			20.72			15.78			17.24		
Approach LOS	C			C			B			B		
d_I, Intersection Delay [s/veh]	17.58											
Intersection LOS	B											
Intersection V/C	0.411											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	19.87	0.00	19.87
I_p,int, Pedestrian LOS Score for Intersection	0.000	2.446	0.000	3.106
Crosswalk LOS	F	B	F	C
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	569	569	1608	1608
d_b, Bicycle Delay [s]	15.27	15.27	1.15	1.15
I_b,int, Bicycle LOS Score for Intersection	1.937	1.890	2.288	2.035
Bicycle LOS	A	A	B	B

Sequence

Ring 1	-	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Appendix 6 Signal Warrant Analysis

Signal Warrants Report For Intersection 1: S. Peach Avenue & Regional Park Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	531	616	23
2	515	598	22
3	504	585	22
4	473	548	20
5	419	487	18
6	414	480	18
7	409	474	18
8	372	431	16
9	366	425	16
10	361	419	16
11	313	363	14
12	292	339	13
13	287	333	12
14	212	246	9
15	212	246	9
16	149	172	6
17	85	99	4
18	85	99	4
19	48	55	2
20	27	31	1
21	16	18	1
22	5	6	0
23	5	6	0
24	5	6	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1147	1	23	No	No	No	No	No	No	No	No	No	No
2	2	1113	1	22	No	No	No	No	No	No	No	No	No	No
3	2	1089	1	22	No	No	No	No	No	No	No	No	No	No
4	2	1021	1	20	No	No	No	No	No	No	No	No	No	No
5	2	906	1	18	No	No	No	No	No	No	No	No	No	No
6	2	894	1	18	No	No	No	No	No	No	No	No	No	No
7	2	883	1	18	No	No	No	No	No	No	No	No	No	No
8	2	803	1	16	No	No	No	No	No	No	No	No	No	No
9	2	791	1	16	No	No	No	No	No	No	No	No	No	No
10	2	780	1	16	No	No	No	No	No	No	No	No	No	No
11	2	676	1	14	No	No	No	No	No	No	No	No	No	No
12	2	631	1	13	No	No	No	No	No	No	No	No	No	No
13	2	620	1	12	No	No	No	No	No	No	No	No	No	No
14	2	458	1	9	No	No	No	No	No	No	No	No	No	No
15	2	458	1	9	No	No	No	No	No	No	No	No	No	No
16	2	321	1	6	No	No	No	No	No	No	No	No	No	No
17	2	184	1	4	No	No	No	No	No	No	No	No	No	No
18	2	184	1	4	No	No	No	No	No	No	No	No	No	No
19	2	103	1	2	No	No	No	No	No	No	No	No	No	No
20	2	58	1	1	No	No	No	No	No	No	No	No	No	No
21	2	34	1	1	No	No	No	No	No	No	No	No	No	No
22	2	11	1	0	No	No	No	No	No	No	No	No	No	No
23	2	11	1	0	No	No	No	No	No	No	No	No	No	No
24	2	11	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	0	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	20.7
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:07
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	23
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1170
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	551	605	44
2	534	587	43
3	523	575	42
4	490	538	39
5	435	478	35
6	430	472	34
7	424	466	34
8	386	424	31
9	380	417	30
10	375	411	30
11	325	357	26
12	303	333	24
13	298	327	24
14	220	242	18
15	220	242	18
16	154	169	12
17	88	97	7
18	88	97	7
19	50	54	4
20	28	30	2
21	17	18	1
22	6	6	0
23	6	6	0
24	6	6	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1156	1	44	No	No	No	No	No	No	No	Yes	No	No
2	2	1121	1	43	No	No	No	No	No	No	No	Yes	No	No
3	2	1098	1	42	No	No	No	No	No	No	No	Yes	No	No
4	2	1028	1	39	No	No	No	No	No	No	No	No	No	No
5	2	913	1	35	No	No	No	No	No	No	No	No	No	No
6	2	902	1	34	No	No	No	No	No	No	No	No	No	No
7	2	890	1	34	No	No	No	No	No	No	No	No	No	No
8	2	810	1	31	No	No	No	No	No	No	No	No	No	No
9	2	797	1	30	No	No	No	No	No	No	No	No	No	No
10	2	786	1	30	No	No	No	No	No	No	No	No	No	No
11	2	682	1	26	No	No	No	No	No	No	No	No	No	No
12	2	636	1	24	No	No	No	No	No	No	No	No	No	No
13	2	625	1	24	No	No	No	No	No	No	No	No	No	No
14	2	462	1	18	No	No	No	No	No	No	No	No	No	No
15	2	462	1	18	No	No	No	No	No	No	No	No	No	No
16	2	323	1	12	No	No	No	No	No	No	No	No	No	No
17	2	185	1	7	No	No	No	No	No	No	No	No	No	No
18	2	185	1	7	No	No	No	No	No	No	No	No	No	No
19	2	104	1	4	No	No	No	No	No	No	No	No	No	No
20	2	58	1	2	No	No	No	No	No	No	No	No	No	No
21	2	35	1	1	No	No	No	No	No	No	No	No	No	No
22	2	12	1	0	No	No	No	No	No	No	No	No	No	No
23	2	12	1	0	No	No	No	No	No	No	No	No	No	No
24	2	12	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	3	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	23.4
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:17
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	44
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1200
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 3: S. Peach Avenue & E. Geary Street

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	N, S
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	N	S	E
1	583	524	34
2	566	508	33
3	554	498	32
4	519	466	30
5	461	414	27
6	455	409	27
7	449	403	26
8	408	367	24
9	402	362	23
10	396	356	23
11	344	309	20
12	321	288	19
13	315	283	18
14	233	210	14
15	233	210	14
16	163	147	10
17	93	84	5
18	93	84	5
19	52	47	3
20	29	26	2
21	17	16	1
22	6	5	0
23	6	5	0
24	6	5	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1107	1	34	No	No	No	No	No	No	No	No	No	No
2	2	1074	1	33	No	No	No	No	No	No	No	No	No	No
3	2	1052	1	32	No	No	No	No	No	No	No	No	No	No
4	2	985	1	30	No	No	No	No	No	No	No	No	No	No
5	2	875	1	27	No	No	No	No	No	No	No	No	No	No
6	2	864	1	27	No	No	No	No	No	No	No	No	No	No
7	2	852	1	26	No	No	No	No	No	No	No	No	No	No
8	2	775	1	24	No	No	No	No	No	No	No	No	No	No
9	2	764	1	23	No	No	No	No	No	No	No	No	No	No
10	2	752	1	23	No	No	No	No	No	No	No	No	No	No
11	2	653	1	20	No	No	No	No	No	No	No	No	No	No
12	2	609	1	19	No	No	No	No	No	No	No	No	No	No
13	2	598	1	18	No	No	No	No	No	No	No	No	No	No
14	2	443	1	14	No	No	No	No	No	No	No	No	No	No
15	2	443	1	14	No	No	No	No	No	No	No	No	No	No
16	2	310	1	10	No	No	No	No	No	No	No	No	No	No
17	2	177	1	5	No	No	No	No	No	No	No	No	No	No
18	2	177	1	5	No	No	No	No	No	No	No	No	No	No
19	2	99	1	3	No	No	No	No	No	No	No	No	No	No
20	2	55	1	2	No	No	No	No	No	No	No	No	No	No
21	2	33	1	1	No	No	No	No	No	No	No	No	No	No
22	2	11	1	0	No	No	No	No	No	No	No	No	No	No
23	2	11	1	0	No	No	No	No	No	No	No	No	No	No
24	2	11	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	0	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	12.2
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:06
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	34
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1141
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 1: S. Peach Avenue & Regional Park Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	519	550	87
2	503	534	84
3	493	523	83
4	462	490	77
5	410	435	69
6	405	429	68
7	400	424	67
8	363	385	61
9	358	379	60
10	353	374	59
11	306	325	51
12	285	303	48
13	280	297	47
14	208	220	35
15	208	220	35
16	145	154	24
17	83	88	14
18	83	88	14
19	47	50	8
20	26	28	4
21	16	17	3
22	5	6	1
23	5	6	1
24	5	6	1

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1069	1	87	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No
2	2	1037	1	84	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No
3	2	1016	1	83	No	No	No	No	Yes	Yes	Yes	Yes	No	No
4	2	952	1	77	No	No	No	No	Yes	Yes	Yes	Yes	No	No
5	2	845	1	69	No	No	No	No	No	Yes	Yes	Yes	No	No
6	2	834	1	68	No	No	No	No	No	Yes	Yes	Yes	No	No
7	2	824	1	67	No	No	No	No	No	Yes	Yes	Yes	No	No
8	2	748	1	61	No	No	No	No	No	Yes	Yes	Yes	No	No
9	2	737	1	60	No	No	No	No	No	Yes	Yes	Yes	No	No
10	2	727	1	59	No	No	No	No	No	No	Yes	Yes	No	No
11	2	631	1	51	No	No	No	No	No	No	No	Yes	No	No
12	2	588	1	48	No	No	No	No	No	No	No	Yes	No	No
13	2	577	1	47	No	No	No	No	No	No	No	Yes	No	No
14	2	428	1	35	No	No	No	No	No	No	No	No	No	No
15	2	428	1	35	No	No	No	No	No	No	No	No	No	No
16	2	299	1	24	No	No	No	No	No	No	No	No	No	No
17	2	171	1	14	No	No	No	No	No	No	No	No	No	No
18	2	171	1	14	No	No	No	No	No	No	No	No	No	No
19	2	97	1	8	No	No	No	No	No	No	No	No	No	No
20	2	54	1	4	No	No	No	No	No	No	No	No	No	No
21	2	33	1	3	No	No	No	No	No	No	No	No	No	No
22	2	11	1	1	No	No	No	No	No	No	No	No	No	No
23	2	11	1	1	No	No	No	No	No	No	No	No	No	No
24	2	11	1	1	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	2	4	9	10	13	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	24.1
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:34
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	87
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1156
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	513	554	163
2	498	537	158
3	487	526	155
4	457	493	145
5	405	438	129
6	400	432	127
7	395	427	126
8	359	388	114
9	354	382	112
10	349	377	111
11	303	327	96
12	282	305	90
13	277	299	88
14	205	222	65
15	205	222	65
16	144	155	46
17	82	89	26
18	82	89	26
19	46	50	15
20	26	28	8
21	15	17	5
22	5	6	2
23	5	6	2
24	5	6	2

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1067	1	163	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
2	2	1035	1	158	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
3	2	1013	1	155	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
4	2	950	1	145	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
5	2	843	1	129	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No
6	2	832	1	127	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No
7	2	822	1	126	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No
8	2	747	1	114	No	No	Yes	Yes	No	Yes	Yes	Yes	No	No
9	2	736	1	112	No	No	Yes	Yes	No	Yes	Yes	Yes	No	No
10	2	726	1	111	No	No	Yes	Yes	No	Yes	Yes	Yes	No	No
11	2	630	1	96	No	No	No	Yes	No	No	Yes	Yes	No	No
12	2	587	1	90	No	No	No	Yes	No	No	No	Yes	No	No
13	2	576	1	88	No	No	No	Yes	No	No	No	Yes	No	No
14	2	427	1	65	No	No	No	No	No	No	No	No	No	No
15	2	427	1	65	No	No	No	No	No	No	No	No	No	No
16	2	299	1	46	No	No	No	No	No	No	No	No	No	No
17	2	171	1	26	No	No	No	No	No	No	No	No	No	No
18	2	171	1	26	No	No	No	No	No	No	No	No	No	No
19	2	96	1	15	No	No	No	No	No	No	No	No	No	No
20	2	54	1	8	No	No	No	No	No	No	No	No	No	No
21	2	32	1	5	No	No	No	No	No	No	No	No	No	No
22	2	11	1	2	No	No	No	No	No	No	No	No	No	No
23	2	11	1	2	No	No	No	No	No	No	No	No	No	No
24	2	11	1	2	No	No	No	No	No	No	No	No	No	No
Hours Met					3	7	10	13	4	10	11	13	3	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	42.9
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	1:56
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	163
High Minor Volume Condition Met	Yes
Total Entering Volume on All Approaches During Same Hour	1230
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 3: S. Peach Avenue & E. Geary Street

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	N, S
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	N	S	E
1	557	471	50
2	540	457	49
3	529	447	48
4	496	419	45
5	440	372	40
6	434	367	39
7	429	363	39
8	390	330	35
9	384	325	35
10	379	320	34
11	329	278	30
12	306	259	28
13	301	254	27
14	223	188	20
15	223	188	20
16	156	132	14
17	89	75	8
18	89	75	8
19	50	42	5
20	28	24	3
21	17	14	2
22	6	5	1
23	6	5	1
24	6	5	1

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	2	1028	1	50	No	No	No	No	No	No	No	Yes	No	No
2	2	997	1	49	No	No	No	No	No	No	No	Yes	No	No
3	2	976	1	48	No	No	No	No	No	No	No	Yes	No	No
4	2	915	1	45	No	No	No	No	No	No	No	Yes	No	No
5	2	812	1	40	No	No	No	No	No	No	No	No	No	No
6	2	801	1	39	No	No	No	No	No	No	No	No	No	No
7	2	792	1	39	No	No	No	No	No	No	No	No	No	No
8	2	720	1	35	No	No	No	No	No	No	No	No	No	No
9	2	709	1	35	No	No	No	No	No	No	No	No	No	No
10	2	699	1	34	No	No	No	No	No	No	No	No	No	No
11	2	607	1	30	No	No	No	No	No	No	No	No	No	No
12	2	565	1	28	No	No	No	No	No	No	No	No	No	No
13	2	555	1	27	No	No	No	No	No	No	No	No	No	No
14	2	411	1	20	No	No	No	No	No	No	No	No	No	No
15	2	411	1	20	No	No	No	No	No	No	No	No	No	No
16	2	288	1	14	No	No	No	No	No	No	No	No	No	No
17	2	164	1	8	No	No	No	No	No	No	No	No	No	No
18	2	164	1	8	No	No	No	No	No	No	No	No	No	No
19	2	92	1	5	No	No	No	No	No	No	No	No	No	No
20	2	52	1	3	No	No	No	No	No	No	No	No	No	No
21	2	31	1	2	No	No	No	No	No	No	No	No	No	No
22	2	11	1	1	No	No	No	No	No	No	No	No	No	No
23	2	11	1	1	No	No	No	No	No	No	No	No	No	No
24	2	11	1	1	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	4	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	12.1
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:10
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	50
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1078
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 1: S. Peach Avenue & Regional Park Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	763	918	23
2	740	890	22
3	725	872	22
4	679	817	20
5	603	725	18
6	595	716	18
7	588	707	18
8	534	643	16
9	526	633	16
10	519	624	16
11	450	542	14
12	420	505	13
13	412	496	12
14	305	367	9
15	305	367	9
16	214	257	6
17	122	147	4
18	122	147	4
19	69	83	2
20	38	46	1
21	23	28	1
22	8	9	0
23	8	9	0
24	8	9	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1681	1	23	No	No	No	No	No	No	No	No	No	No
2	4	1630	1	22	No	No	No	No	No	No	No	No	No	No
3	4	1597	1	22	No	No	No	No	No	No	No	No	No	No
4	4	1496	1	20	No	No	No	No	No	No	No	No	No	No
5	4	1328	1	18	No	No	No	No	No	No	No	No	No	No
6	4	1311	1	18	No	No	No	No	No	No	No	No	No	No
7	4	1295	1	18	No	No	No	No	No	No	No	No	No	No
8	4	1177	1	16	No	No	No	No	No	No	No	No	No	No
9	4	1159	1	16	No	No	No	No	No	No	No	No	No	No
10	4	1143	1	16	No	No	No	No	No	No	No	No	No	No
11	4	992	1	14	No	No	No	No	No	No	No	No	No	No
12	4	925	1	13	No	No	No	No	No	No	No	No	No	No
13	4	908	1	12	No	No	No	No	No	No	No	No	No	No
14	4	672	1	9	No	No	No	No	No	No	No	No	No	No
15	4	672	1	9	No	No	No	No	No	No	No	No	No	No
16	4	471	1	6	No	No	No	No	No	No	No	No	No	No
17	4	269	1	4	No	No	No	No	No	No	No	No	No	No
18	4	269	1	4	No	No	No	No	No	No	No	No	No	No
19	4	152	1	2	No	No	No	No	No	No	No	No	No	No
20	4	84	1	1	No	No	No	No	No	No	No	No	No	No
21	4	51	1	1	No	No	No	No	No	No	No	No	No	No
22	4	17	1	0	No	No	No	No	No	No	No	No	No	No
23	4	17	1	0	No	No	No	No	No	No	No	No	No	No
24	4	17	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	0	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	25.2
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:09
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	23
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1704
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	783	907	44
2	760	880	43
3	744	862	42
4	697	807	39
5	619	717	35
6	611	707	34
7	603	698	34
8	548	635	31
9	540	626	30
10	532	617	30
11	462	535	26
12	431	499	24
13	423	490	24
14	313	363	18
15	313	363	18
16	219	254	12
17	125	145	7
18	125	145	7
19	70	82	4
20	39	45	2
21	23	27	1
22	8	9	0
23	8	9	0
24	8	9	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1690	1	44	No	No	No	No	No	No	No	Yes	No	No
2	4	1640	1	43	No	No	No	No	No	No	No	Yes	No	No
3	4	1606	1	42	No	No	No	No	No	No	No	Yes	No	No
4	4	1504	1	39	No	No	No	No	No	No	No	No	No	No
5	4	1336	1	35	No	No	No	No	No	No	No	No	No	No
6	4	1318	1	34	No	No	No	No	No	No	No	No	No	No
7	4	1301	1	34	No	No	No	No	No	No	No	No	No	No
8	4	1183	1	31	No	No	No	No	No	No	No	No	No	No
9	4	1166	1	30	No	No	No	No	No	No	No	No	No	No
10	4	1149	1	30	No	No	No	No	No	No	No	No	No	No
11	4	997	1	26	No	No	No	No	No	No	No	No	No	No
12	4	930	1	24	No	No	No	No	No	No	No	No	No	No
13	4	913	1	24	No	No	No	No	No	No	No	No	No	No
14	4	676	1	18	No	No	No	No	No	No	No	No	No	No
15	4	676	1	18	No	No	No	No	No	No	No	No	No	No
16	4	473	1	12	No	No	No	No	No	No	No	No	No	No
17	4	270	1	7	No	No	No	No	No	No	No	No	No	No
18	4	270	1	7	No	No	No	No	No	No	No	No	No	No
19	4	152	1	4	No	No	No	No	No	No	No	No	No	No
20	4	84	1	2	No	No	No	No	No	No	No	No	No	No
21	4	50	1	1	No	No	No	No	No	No	No	No	No	No
22	4	17	1	0	No	No	No	No	No	No	No	No	No	No
23	4	17	1	0	No	No	No	No	No	No	No	No	No	No
24	4	17	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	3	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	30.4
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:22
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	44
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1734
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 3: S. Peach Avenue & E. Geary Street

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	N, S
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	N	S	E
1	885	756	34
2	858	733	33
3	841	718	32
4	788	673	30
5	699	597	27
6	690	590	27
7	681	582	26
8	620	529	24
9	611	522	23
10	602	514	23
11	522	446	20
12	487	416	19
13	478	408	18
14	354	302	14
15	354	302	14
16	248	212	10
17	142	121	5
18	142	121	5
19	80	68	3
20	44	38	2
21	27	23	1
22	9	8	0
23	9	8	0
24	9	8	0

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1641	1	34	No	No	No	No	No	No	No	No	No	No
2	4	1591	1	33	No	No	No	No	No	No	No	No	No	No
3	4	1559	1	32	No	No	No	No	No	No	No	No	No	No
4	4	1461	1	30	No	No	No	No	No	No	No	No	No	No
5	4	1296	1	27	No	No	No	No	No	No	No	No	No	No
6	4	1280	1	27	No	No	No	No	No	No	No	No	No	No
7	4	1263	1	26	No	No	No	No	No	No	No	No	No	No
8	4	1149	1	24	No	No	No	No	No	No	No	No	No	No
9	4	1133	1	23	No	No	No	No	No	No	No	No	No	No
10	4	1116	1	23	No	No	No	No	No	No	No	No	No	No
11	4	968	1	20	No	No	No	No	No	No	No	No	No	No
12	4	903	1	19	No	No	No	No	No	No	No	No	No	No
13	4	886	1	18	No	No	No	No	No	No	No	No	No	No
14	4	656	1	14	No	No	No	No	No	No	No	No	No	No
15	4	656	1	14	No	No	No	No	No	No	No	No	No	No
16	4	460	1	10	No	No	No	No	No	No	No	No	No	No
17	4	263	1	5	No	No	No	No	No	No	No	No	No	No
18	4	263	1	5	No	No	No	No	No	No	No	No	No	No
19	4	148	1	3	No	No	No	No	No	No	No	No	No	No
20	4	82	1	2	No	No	No	No	No	No	No	No	No	No
21	4	50	1	1	No	No	No	No	No	No	No	No	No	No
22	4	17	1	0	No	No	No	No	No	No	No	No	No	No
23	4	17	1	0	No	No	No	No	No	No	No	No	No	No
24	4	17	1	0	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	0	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	11.4
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:06
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	34
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1675
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 1: S. Peach Avenue & Regional Park Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	752	852	87
2	729	826	84
3	714	809	83
4	669	758	77
5	594	673	69
6	587	665	68
7	579	656	67
8	526	596	61
9	519	588	60
10	511	579	59
11	444	503	51
12	414	469	48
13	406	460	47
14	301	341	35
15	301	341	35
16	211	239	24
17	120	136	14
18	120	136	14
19	68	77	8
20	38	43	4
21	23	26	3
22	8	9	1
23	8	9	1
24	8	9	1

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1604	1	87	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No
2	4	1555	1	84	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No
3	4	1523	1	83	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No
4	4	1427	1	77	No	No	No	No	Yes	Yes	Yes	Yes	No	No
5	4	1267	1	69	No	No	No	No	No	Yes	Yes	Yes	No	No
6	4	1252	1	68	No	No	No	No	No	Yes	Yes	Yes	No	No
7	4	1235	1	67	No	No	No	No	No	Yes	Yes	Yes	No	No
8	4	1122	1	61	No	No	No	No	No	Yes	Yes	Yes	No	No
9	4	1107	1	60	No	No	No	No	No	Yes	Yes	Yes	No	No
10	4	1090	1	59	No	No	No	No	No	No	Yes	Yes	No	No
11	4	947	1	51	No	No	No	No	No	No	No	Yes	No	No
12	4	883	1	48	No	No	No	No	No	No	No	Yes	No	No
13	4	866	1	47	No	No	No	No	No	No	No	Yes	No	No
14	4	642	1	35	No	No	No	No	No	No	No	No	No	No
15	4	642	1	35	No	No	No	No	No	No	No	No	No	No
16	4	450	1	24	No	No	No	No	No	No	No	No	No	No
17	4	256	1	14	No	No	No	No	No	No	No	No	No	No
18	4	256	1	14	No	No	No	No	No	No	No	No	No	No
19	4	145	1	8	No	No	No	No	No	No	No	No	No	No
20	4	81	1	4	No	No	No	No	No	No	No	No	No	No
21	4	49	1	3	No	No	No	No	No	No	No	No	No	No
22	4	17	1	1	No	No	No	No	No	No	No	No	No	No
23	4	17	1	1	No	No	No	No	No	No	No	No	No	No
24	4	17	1	1	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	2	4	9	10	13	3	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	34
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:49
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	87
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1691
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Signal Warrants Report For Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	Yes
#2	Four Hour Vehicular Volume	Yes
#3	Peak Hour	Yes

Intersection Warrants Parameters

Major Approaches	S, N
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	S	N	E
1	746	856	163
2	724	830	158
3	709	813	155
4	664	762	145
5	589	676	129
6	582	668	127
7	574	659	126
8	522	599	114
9	515	591	112
10	507	582	111
11	440	505	96
12	410	471	90
13	403	462	88
14	298	342	65
15	298	342	65
16	209	240	46
17	119	137	26
18	119	137	26
19	67	77	15
20	37	43	8
21	22	26	5
22	7	9	2
23	7	9	2
24	7	9	2

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1602	1	163	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	4	1554	1	158	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	4	1522	1	155	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	4	1426	1	145	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
5	4	1265	1	129	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
6	4	1250	1	127	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
7	4	1233	1	126	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
8	4	1121	1	114	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
9	4	1106	1	112	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
10	4	1089	1	111	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
11	4	945	1	96	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No
12	4	881	1	90	No	No	No	Yes	No	Yes	Yes	Yes	No	No
13	4	865	1	88	No	No	No	Yes	No	Yes	Yes	Yes	No	No
14	4	640	1	65	No	No	No	No	No	No	Yes	Yes	No	No
15	4	640	1	65	No	No	No	No	No	No	Yes	Yes	No	No
16	4	449	1	46	No	No	No	No	No	No	No	No	No	No
17	4	256	1	26	No	No	No	No	No	No	No	No	No	No
18	4	256	1	26	No	No	No	No	No	No	No	No	No	No
19	4	144	1	15	No	No	No	No	No	No	No	No	No	No
20	4	80	1	8	No	No	No	No	No	No	No	No	No	No
21	4	48	1	5	No	No	No	No	No	No	No	No	No	No
22	4	16	1	2	No	No	No	No	No	No	No	No	No	No
23	4	16	1	2	No	No	No	No	No	No	No	No	No	No
24	4	16	1	2	No	No	No	No	No	No	No	No	No	No
Hours Met					3	7	10	13	11	13	15	15	7	3

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	97.2
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	4:24
Delay Condition Met	Yes
Volume on Minor Street Approach During Same Hour	163
High Minor Volume Condition Met	Yes
Total Entering Volume on All Approaches During Same Hour	1765
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	Yes
Warrant Met for Intersection	**Yes**

Signal Warrants Report For Intersection 3: S. Peach Avenue & E. Geary Street

Warrants Summary

Warrant	Name	Met?
#1	Eight Hour Vehicular Volume	No
#2	Four Hour Vehicular Volume	No
#3	Peak Hour	No

Intersection Warrants Parameters

Major Approaches	N, S
Minor Approaches	E
Speed > 40mph	No
Population < 10,000	No
Warrant Factor	100%

Warrant Analysis Traffic Volumes

Hour	Major Streets		Minor Streets
	N	S	E
1	859	704	50
2	833	683	49
3	816	669	48
4	765	627	45
5	679	556	40
6	670	549	39
7	661	542	39
8	601	493	35
9	593	486	35
10	584	479	34
11	507	415	30
12	472	387	28
13	464	380	27
14	344	282	20
15	344	282	20
16	241	197	14
17	137	113	8
18	137	113	8
19	77	63	5
20	43	35	3
21	26	21	2
22	9	7	1
23	9	7	1
24	9	7	1

Warrant Analysis by Hour

Hour	Major Streets		Minor Street		Warrant 1 Condition A				Warrant 1 Condition B				Warrant 2	Warrant 3
	Number	Volume	Number	Volume	100%	80%	70%	56%	100%	80%	70%	56%		Condition B
1	4	1563	1	50	No	No	No	No	No	No	No	Yes	No	No
2	4	1516	1	49	No	No	No	No	No	No	No	Yes	No	No
3	4	1485	1	48	No	No	No	No	No	No	No	Yes	No	No
4	4	1392	1	45	No	No	No	No	No	No	No	Yes	No	No
5	4	1235	1	40	No	No	No	No	No	No	No	No	No	No
6	4	1219	1	39	No	No	No	No	No	No	No	No	No	No
7	4	1203	1	39	No	No	No	No	No	No	No	No	No	No
8	4	1094	1	35	No	No	No	No	No	No	No	No	No	No
9	4	1079	1	35	No	No	No	No	No	No	No	No	No	No
10	4	1063	1	34	No	No	No	No	No	No	No	No	No	No
11	4	922	1	30	No	No	No	No	No	No	No	No	No	No
12	4	859	1	28	No	No	No	No	No	No	No	No	No	No
13	4	844	1	27	No	No	No	No	No	No	No	No	No	No
14	4	626	1	20	No	No	No	No	No	No	No	No	No	No
15	4	626	1	20	No	No	No	No	No	No	No	No	No	No
16	4	438	1	14	No	No	No	No	No	No	No	No	No	No
17	4	250	1	8	No	No	No	No	No	No	No	No	No	No
18	4	250	1	8	No	No	No	No	No	No	No	No	No	No
19	4	140	1	5	No	No	No	No	No	No	No	No	No	No
20	4	78	1	3	No	No	No	No	No	No	No	No	No	No
21	4	47	1	2	No	No	No	No	No	No	No	No	No	No
22	4	16	1	1	No	No	No	No	No	No	No	No	No	No
23	4	16	1	1	No	No	No	No	No	No	No	No	No	No
24	4	16	1	1	No	No	No	No	No	No	No	No	No	No
Hours Met					0	0	0	0	0	0	0	4	0	0

Warrant 3 Condition A

Orientation	E
Total Stopped Delay Per Vehicle on Minor Approach (s)	11.4
Number of Lanes on Minor Street Approach	1
VehicleHours of Stopped Delay on Minor Approach ([h]h:mm)	0:09
Delay Condition Met	No
Volume on Minor Street Approach During Same Hour	50
High Minor Volume Condition Met	No
Total Entering Volume on All Approaches During Same Hour	1613
Number of Approaches on Intersection	3
Total Volume Condition Met	Yes
Warrant Met for Approach	No
Warrant Met for Intersection	**No**

Appendix 7 Level of Service Worksheets – Proposed Improvement

SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Scenario 9 2035 PM + Project Improved

Report File: H:\...\2035 PM_LOS Details_Improved.pdf
1/11/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	S. Peach Avenue & Soccer Complex Driveway	Signalized	HCM 6th Edition	WB Left	0.420	3.5	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Signalized	Delay (sec / veh):	3.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.420

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	1	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	721	0	0	848	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	22	40	46	13	24	20
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	743	40	46	861	24	20
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	202	11	13	234	7	5
Total Analysis Volume [veh/h]	808	43	50	936	26	22
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0		0		0	
v_di, Inbound Pedestrian Volume crossing major street [	0		0		0	
v_co, Outbound Pedestrian Volume crossing minor stree	0		0		0	
v_ci, Inbound Pedestrian Volume crossing minor street [	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	6.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal Group	6	0	0	2	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	10	0	0	10	5	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	5	0	0	5	5	0
Pedestrian Clearance [s]	7	0	0	10	14	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C
C, Cycle Length [s]	20	20	20	20	20
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	10	10	1
g / C, Green / Cycle	0.53	0.53	0.53	0.53	0.06
(v / s)_i Volume / Saturation Flow Rate	0.23	0.23	0.08	0.26	0.03
s, saturation flow rate [veh/h]	1870	1837	648	3560	1688
c, Capacity [veh/h]	983	966	572	1871	115
d1, Uniform Delay [s]	2.87	2.88	4.96	3.01	8.80
k, delay calibration	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.30	0.32	0.07	0.21	2.41
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.43	0.44	0.09	0.50	0.42
d, Delay for Lane Group [s/veh]	3.17	3.20	5.02	3.21	11.21
Lane Group LOS	A	A	A	A	B
Critical Lane Group	No	No	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	0.08	0.09	0.07	0.05	0.19
50th-Percentile Queue Length [ft/ln]	2.06	2.13	1.80	1.35	4.65
95th-Percentile Queue Length [veh/ln]	0.15	0.15	0.13	0.10	0.33
95th-Percentile Queue Length [ft/ln]	3.71	3.83	3.23	2.43	8.37

Movement, Approach, & Intersection Results

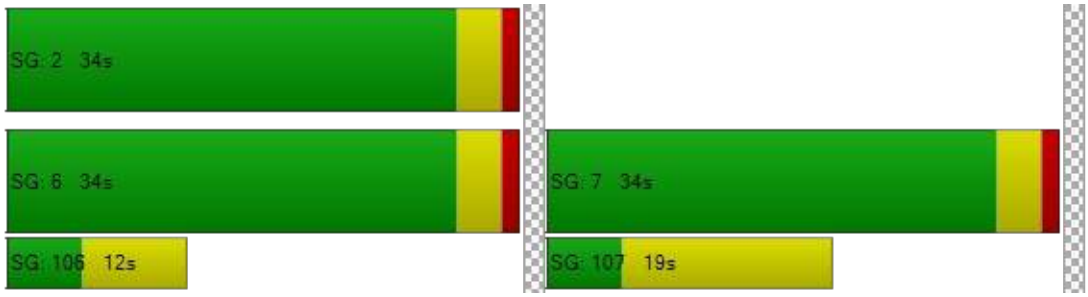
d_M, Delay for Movement [s/veh]	3.18	3.20	5.02	3.21	11.21	11.21
Movement LOS	A	A	A	A	B	B
d_A, Approach Delay [s/veh]	3.18		3.31		11.21	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	3.45					
Intersection LOS	A					
Intersection V/C	0.420					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	2.86	2.86	2.86
l_p,int, Pedestrian LOS Score for Intersection	2.472	2.553	1.754
Crosswalk LOS	B	B	A
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	3064	3064	3064
d_b, Bicycle Delay [s]	2.77	2.77	2.77
l_b,int, Bicycle LOS Score for Intersection	2.262	2.373	1.639
Bicycle LOS	B	B	A

Sequence

Ring 1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



SE Fresno Regional Park

Vistro File: H:\...\25496_SE_Fresno_Park_20201231.vistro
Scenario 10 2035 Saturday + Project Improved

Report File: H:\...\2035 SAT+Proj_LOS Details_Improved.pdf
1/11/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	S. Peach Avenue & Soccer Complex Driveway	Signalized	HCM 6th Edition	WB Left	0.448	4.8	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report

Intersection 2: S. Peach Avenue & Soccer Complex Driveway

Control Type:	Signalized	Delay (sec / veh):	4.8
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.448

Intersection Setup

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	1	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	S. Peach Avenue		S. Peach Avenue		Soccer Complex Driveway	
Base Volume Input [veh/h]	632	0	0	731	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	43	71	80	45	86	77
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	675	71	80	776	86	77
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	183	19	22	211	23	21
Total Analysis Volume [veh/h]	734	77	87	843	93	84
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing major stree	0		0		0	
v_di, Inbound Pedestrian Volume crossing major street [	0		0		0	
v_co, Outbound Pedestrian Volume crossing minor stree	0		0		0	
v_ci, Inbound Pedestrian Volume crossing minor street [	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Free Running
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	6.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal Group	6	0	5	2	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	10	0	5	10	5	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	0	0	0	0	0	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	5	0	0	5	5	0
Pedestrian Clearance [s]	7	0	0	10	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	20.0	0.0	20.0	20.0	20.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C
C, Cycle Length [s]	25	25	25	25	25
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	14	14	14	14	4
g / C, Green / Cycle	0.54	0.54	0.54	0.54	0.14
(v / s)_i Volume / Saturation Flow Rate	0.22	0.22	0.13	0.24	0.11
s, saturation flow rate [veh/h]	1870	1809	673	3560	1685
c, Capacity [veh/h]	1009	977	503	1922	239
d1, Uniform Delay [s]	3.40	3.43	6.65	3.49	10.34
k, delay calibration	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.26	0.28	0.16	0.16	4.47
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.40	0.42	0.17	0.44	0.74
d, Delay for Lane Group [s/veh]	3.66	3.71	6.81	3.65	14.80
Lane Group LOS	A	A	A	A	B
Critical Lane Group	No	No	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	0.24	0.25	0.21	0.22	0.92
50th-Percentile Queue Length [ft/ln]	6.09	6.24	5.20	5.62	22.90
95th-Percentile Queue Length [veh/ln]	0.44	0.45	0.37	0.40	1.65
95th-Percentile Queue Length [ft/ln]	10.97	11.22	9.36	10.12	41.22

Movement, Approach, & Intersection Results

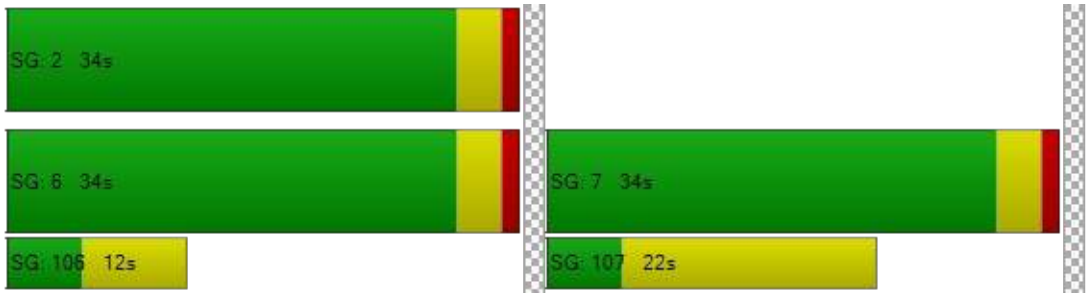
d_M, Delay for Movement [s/veh]	3.68	3.71	6.81	3.65	14.80	14.80
Movement LOS	A	A	A	A	B	B
d_A, Approach Delay [s/veh]	3.69		3.94		14.80	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	4.84					
Intersection LOS	A					
Intersection V/C	0.448					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	5.22	5.22	5.22
l_p,int, Pedestrian LOS Score for Intersection	2.480	2.564	1.928
Crosswalk LOS	B	B	A
s_b, Saturation Flow Rate of the bicycle lane [bicycles/h]	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	2378	2378	2378
d_b, Bicycle Delay [s]	0.45	0.45	0.45
l_b,int, Bicycle LOS Score for Intersection	2.229	2.327	1.852
Bicycle LOS	B	B	A

Sequence

Ring 1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

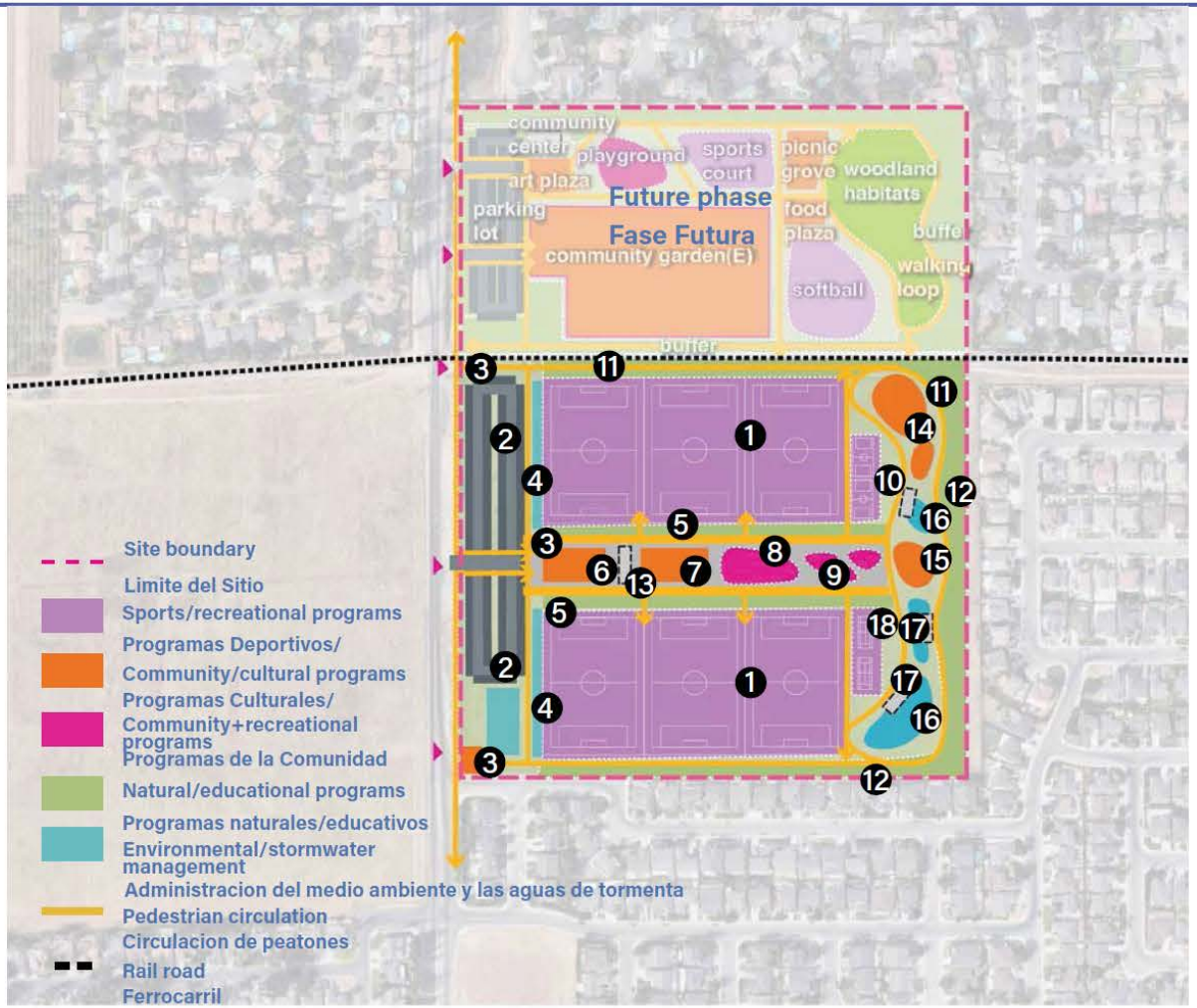


Appendix G

Site Design
Scheme

Site Design Scheme 2: Hybrid Soccer Park

Esquema del Diseno de Sitio 2: Parque de Futbol Hibrido



1. **Soccer field** — Cancha de futbol
2. **Parking lot** — Estacionamiento
3. **Entry node** — Nodo de entrada
4. **Rain garden** — Jardin de lluvia
5. **Tree lined boulevard** — Bulevar arboleado
6. **Picnic/Cultural plaza** — Plaza de picnic/cultural
7. **Demonstration/Art garden** — Jardin de demonstracion/ Arte
8. **Playground** — Area de recreasion
9. **Fitness station** — Estacion de ejercicios
10. **Futsal courts** — Canchas de Futsal
11. **Walking loop** — Vereda para caminar
12. **Buffer** — Area de transision
13. **Concession and community canopy** — Concesion y voladizo comunitario
14. **Dog park** — Parque para perros
15. **Aquatic center** — Centro acuatico
16. **Stormwater/Natural habitat** — Habitat natural/agua de tormenta
17. **Habitat education platform** — Pataforma de educasion de Habitat
18. **Pickleball court** — Cancha de Pickebol

